McGILL UNIVERSITY

MONTREAL

CALENDAR

1940 - 1941

PRESENTED TO THE LIBRARY
BY

McGill University.

1940-41

McGILL UNIVERSITY LIBRARY

336465 1940

DATE DUE

DUE	RETURNED
ILL ML MAR 26 1976	MAY 3 1976
ILL ML	JUL 30 1981 JUL 21 1987

KING PRESS NO. 306

McGill University Libraries
3 100 436 245 W

McGILL UNIVERSITY

MONTREAL

CALENDAR

1940-41

Printed in Canada for the University by C. R. Corneil, Limited, Montreal

LE3
M2
1940-41
336465

INDEX

PAGE

Abbott Scholarships 199
Academic Year 100, 101, 102
Accountancy, Courses in 144, 376, 380
  Diploma of Licentiate in 381
  For Matriculation 143
Accountancy Diploma Course 364
  Fees 384
Accounting and Auditing 376, 377, 378, 381
Accounting, Elements of 381
Accounts, Theory and Practice of 368
Adams (F.D.) Scholarship 206
Administrative Law 610
Administrative Officers 109, 237, 353, 405
  485, 563, 603, 735
  803, 829, 853, 894
Admission, Age of 118
Admission to the University 91
Admission, Application for 118
Admission to:—
  Agriculture 912, 924
  Architecture 407
  Arts and Science 118, 126, 142, 239, 240
  Commerce 355
  Dentistry 563
  Engineering 114, 144, 407, 408
  Faculties and Schools 112
  Graduate Nurses, School for 854
  Graduate Studies 737
  Law 603
  Library School 804
  Macdonald College 912
  Medicine 488
  Music 644
  Physical Education 830, 831
  Professional Faculties 121
  Royal Victoria College 95
  School for Teachers 964
  Study and Practice of Law in Quebec 611
  Study and Practice of Medicine 495
  Upper Years 117, 241
Advanced Courses in Arts and Science 120, 251
Advanced Standing in Engineering for Graduates in Arts and Science 121, 241, 412

336465

PAGE

Advancement to Regular Standing in Arts and Science 245
Advisers 120, 242, 356
Affiliated Colleges 88, 89, 411, 889, 890
Affiliated Colleges in Engineering 411
Affiliated Theological Colleges 88
Affiliated Theological Colleges Scholarships 181
Affiliation with other Universities 89
Age of Admission 118, 240
Agricultural Bacteriology 756
Agriculture, Faculty of 115, 889, 912
Agronomy, Graduate Courses in 753
Alexander (Charles) Scholarship 186
Alexandra Hospital 528
Alexandra Hospital Scholarship 212
Algebra 137, 150
Allan (Dr. J. H. B.) Scholarship 207
Allan (Margaret Jane) Scholarship 186
Alliance Française Medals 189, 978
Alpha Omega Alpha Society 531
Alumnae Society Bursaries and Loans 192
American Society of Metals Prize 195
Anatomy, Courses in Arts and Science 262
" " " Dentistry 569
" " " Graduate Faculty 754
" " " Medicine 497, 498
" Dental 576
" Department of 262
Anæsthesia 516, 574
Ancient History 274
Anglin Bursary 197
Anglin-Norcross Prizes 194
Animal Nutrition and Breeding 755
Application Forms 117, 118, 240, 855, 899, 912, 964
Applied Mechanics 443
Approved Lodgings. *See Board and Lodging.*
Architecture:—
Admission to 407
Department and Courses 416
School of 114, 436
Summer Work in 431
Arts and Science, Faculty of 112, 118
Associate in Music, Diploma of 668
Associate Committee on Parasitology 895
Association of Registered Nurses Scholarship 213
Athletics Board, University 11

PAGE

Athletics 829
Attendance, Rules Regarding 120, 244, 356, 410
856, 900, 901, 913

Bachelor of Arts, Engineering, etc. *See Degrees, Regulations for*
Bacteriology, Courses in Arts and Science 262
" " " Dentistry 570
" " " Graduate Faculty 755
" " " Medicine 502
" Department of 262
Ballon (Ellen) Piano Scholarship 202
Bar Regulations, Province of Quebec 611
Barclay Scholarship 186
Baylis Scholarship 196
Beatty (Sir Edward) Medal 193
Beatty (Sir Edward) Scholarships 178
Bedford Graduates' Society's Scholarship 180
Biochemistry, Courses in Arts and Science 264
" " " Dentistry 572
" " " Graduate Faculty 757
" " " Medicine 500
" Department of 264
Biological Building 526
Biology 127, 145, 259
Bnai Brith Bursaries 183, 192
Board of Governors 5, 888
Board and Residence 94, 95, 490, 858
899, 902, 905
Douglas Hall 94
Royal Victoria College 95
Botany, Courses in Arts and Science 129, 265
" " " Graduate Faculty 757
Botany, Department of 265
" Matriculation 129
Botany Prizes 191
British Association Prizes 194
British Association Medal 197
Browne (A. A.) Fellowship 206
Bruce (Robert) Bursary 179
Bruce (Robert) Scholarships 179, 187
Buildings, Medical 525
Bursaries. *See Scholarships.*
Business Organization, Course in 370
Busteed (Edwin Botsford) Scholarship 208

PAGE

Calendar 100, 101, 102
640, 644, 897
Canadian Institute of Mining and Metallurgy Loan Fund 198
" " " " Medal 197
" " " " Prizes 195
Canadian Officers' Training Corps 994
Canadian Pacific Railway Company's Scholarships 180
Carpenter (Philip) Fellowship 205
Casgrain & Charbonneau Award 208
Caution Money 98, 905
Certificates Recognized 124, 141, 409, 855
Chancellor's Medal 193
Changing Courses 242
Chapman (Henry) Gold Medal 189
Chapman (Henry) Prize 190
Chartered Accountants, Course for 364
Chartered Accountants' Course Fees 384
Chemical Engineering, Curriculum 420
Chemical Industry Society's Prize 195
Chemistry, Courses in Arts and Science 130, 147, 268
" " " Commerce 370
" " " Engineering 440
" " " Graduate Faculty 758
" " " " " Macdonald College 762
" Department of 268
" Matriculation 130, 147
Cherry Prize 190
Children's Memorial Hospital 527
Children's Memorial Hospital Scholarship 213
Christie-Storer Chapter Scholarship 181
Civil Engineering, Curriculum 443
Department and Courses 422
Civil Engineering, Graduate Courses in 763
Civil Law 609, 610
Civil Procedure 610
Civil Servants, Concessions for 743
Class of 1899 Fund 197
Class of 1916 Cup 212
Class of 1925 Shield 212
Classes of Students 119, 239, 644, 737
Classics, Courses in Arts and Science 271
" " " Graduate Faculty 764
" Department of 271

	PAGE
Classification of Marks in:—	
Arts and Science	245
Accountancy Diploma Course	379
Dentistry	568
Engineering	414
Graduate Faculty	743
Law	608
Medicine	494
Macdonald College	942, 943
Nurses, School for Graduate	857
Clinical Instruction in Dentistry	574, 580
Cognate Subjects	743
College of Dental Surgeons of Quebec Prize	200
Colleges (Affiliated)	88, 89, 411, 889, 890
Colleges (Incorporated)	88
Commerce, School of	112, 118
Commercial Law	370, 379
Commercial Society Loan Fund	193, 358
Committees of Faculties	238, 353, 405 735, 853, 895
Committees of Governors and Senate	8
Comparative Law	611
Comparative Philology	764
Conflict of Laws, Course in	611
Conservatorium of Music. *See Faculty of Music.*	
Constitution of the University	87
Constitutional Law	609, 610
Continuation Subjects	248, 257
Cooper (James) Endowment	207
Co-ordinate Geometry	150
Corporation of Public Accountants	365
Cost Accounting	382, 383
Cost of Education. *See Expenses.*	
Courses for Degrees and Diplomas. *See Degrees, Regulations for and Diplomas, Regulations for*	
Criminal Law and Procedure	609, 610
Crossley (Ethelwyn M.) Scholarship	807
Crowe (Harry J.) Scholarship	213
Crown and Bridge Work	579
Dates for Session 1940-41	100, 101, 102
Dawson (Sir William) Scholarship	186, 195
Dawson (Sir William) Fellowship	205
Degrees Granted by the University	112
Degrees in Arts and Science	120, 248
Degrees in Engineering	412
Degrees in Graduate Faculty	738

	Page
Degrees in Law	607
Degrees, Regulations for:—	
Bachelor of Architecture	416
" " Arts	249, 252
" " Civil Law	603
" " Commerce	359
" " Engineering	412
" " Household Science	956
" " Library Science	804
" " Music	648
" " Science	255, 256
" " Science in Agriculture	912, 921, 926, 943
Doctor of Civil Law	738, 749
" " Dental Surgery	567, 568
" " Literature	738, 749
" " Medicine	490, 495
" " Music	738, 750
" " Philosophy	738, 747
" " Science	738, 749
Master of Arts	738, 744
" " Civil Law	738, 746
" " Commerce	362, 738, 746
" " Engineering	738, 745
" " Science	738
Delta Phi Epsilon Sorority Bursary	188
Delta Upsilon Scholarship	203
Demonstratorships	203
Dental Anatomy	576
Dental Council, Dominion	564
Dental History, Ethics and Office Management	575
Dental Instruments	566
Dental Jurisprudence	575
Dental Metallurgy	575
Dental Pathology	572
Dental Surgery	574
Dentistry, Faculty of	115
Requirements for Licence to Practice	564
Requirements for Degree	568
Lectures in	569
Dermatology	509
Descriptive Geometry	445
Diet and Nutrition	571
Diocesan College	89

	PAGE
Diplomas, Regulations for	
Diploma for Graduate Nurses	854
" of Licentiate in Accountancy	362
" " Associate in Music	668
" " Licentiate in Music	651
" " Agriculture	914, 919
" " Physical Education	830
" " Public Health	524
" " Household Science	953
" " for Teaching	965, 967, 969
" " Veterinary Public Health	525
Directory of Staff	3–56
Discipline	411
Distinction in General Course in Arts and Science	248
Dominion Dental Council	564
Dominion Registration for Medical Students	496
Douglas (Dr. James) Fellowship in Mining Engineering	205
Douglas (Dr. James) Fellowship in Pathology	207
Douglas (Dr. James) Tutorial Bursaries	196
Douglas Hall	94
Drake (Joseph Morley) Prize	199
Drawing and Descriptive Geometry	445
Drawing, for Matriculation	131
Drummond (Guy) Memorial Scholarship	204
Economics, Courses in Accountants' Course	379
" " " Arts and Science	275
" " " Commerce	367
" " " Engineering	448
" " " Graduate Faculty	765
Economics, Department of	275
Education, Courses in Arts and Science	277
" " " Graduate Faculty	766
" Department of	277
Elder (John Munro) Prize	199
Electrical Engineering, Curriculum	446
Department and Courses	423
Graduate Courses in	766
Embryology	498
Emeritus Professors	15
Engineering Curriculum	415
Engineering, Faculty of	114
Engineering Courses	419, 420, 436
Engineering Institute of Canada Prizes	194, 195
Engineering Law	448
Engineering Physics	261, 459

	PAGE
Engineering Practice	448
Engineering Societies	414
Engineering Undergraduate Society's Prize	195
English, Courses in Arts and Science	279
" " " Commerce	371
" " " Graduate Faculty	767
" Department of	279
" Matriculation	132, 148
Entomology, Graduate Courses in	770
Entrance Examinations	122, 124, 141
Entrance Requirements	95, 114, 118, 126, 142, 144, 239, 240, 407, 487, 563, 603, 644, 737, 804, 830, 831, 854, 912, 924
Entrance Bursaries	177, 178
Entrance Scholarships	177, 178
Equivalent Standing in Medicine	488
Essay, Graduating, in Law	608
Ethnological Museum	992
Evans (Nevil Norton) Scholarship	196
Evidence, Course in	610
Examination, Medical	409, 805
Examinations, Entrance	122, 124, 141
Examinations in:—	
Agriculture	918, 941
Arts and Science	120, 244, 245
Accountancy Diploma Course	379, 380
Dentistry	568
Engineering	413
Graduate Nurses, School for	857
Graduate Studies	743
Household Science	941, 956
Law	608
Medicine	492
Music	648
Physical Education, School of	832
School for Teachers	967
Exhibition of 1851 Scholarship	209
Expenses—Approximate total cost	99, 905
In Graduate Nurses, School for	859
Experimental Medicine and Surgery, Graduate Courses in	771
Extension Courses, Library	807
" Services, Agriculture	982
" Household Science	983

PAGE
Faculties and Schools 112, 318
Faculty of Agriculture 115, 889, 912
" " Arts and Science 233–218
" " Dentistry 563–581
" " Engineering 403–462
" " Graduate Studies and Research 736–797
" " Law 603–611
" " Medicine 485–531
" " Music 635–720
Fairley (Grace) Trafalgar Scholarship 181
Fantham Memorial Prize 190
Farrand (Narcissa) Scholarship 181
Fees 96, 97, 98
Fees for Matriculation Examinations 122
Fees in Accountancy Course 384
" " Agriculture 903, 909, 910
" " Arts and Science 246
" " Commerce 357
" " Dentistry 565
" " Engineering 411
" " Graduate Nurses, School for 857
" " Graduate Faculty 739
" " Household Science 904
" " Law 604, 605
" " Library School 805
" " Medicine 489
" " Music 645
" " Physical Education 832
" " Royal Victoria College 96
Fellowships 495, 738
Field Schools:—
In Engineering 430
In Metallurgy 456
In Mining 455
In Surveying 461
Forbes (Mildred Hope) Memorial Scholarship 213
Forsyth (Dora) Prize 190
Forsyth (Robert) Prizes 195, 199
Foundation of the University 87
Of Macdonald College 889
Of the Royal Victoria College 95
French, Courses in Arts and Science 284
" " " Commerce 371
" " " Graduate Faculty 772
" Department of 284
" Matriculation 133, 148
" for Law 604

	Page
French Summer School	117, 773
French Summer School Scholarships	202
Frost (George Henry) Loan Fund	197
Garrow (Dr.) Scholarship	213
General Announcement	105–151
General Courses for B.A.	249, 252
General Courses for B.Sc	255, 256
General Degrees	120
General Information	91–102
Genetics, Courses in Arts and Science	287
" Courses in Graduate Faculty	775
" Department of	287
Geodesy	460
Geography	133
Geological Sciences, Courses in Arts and Science	288
" " " " Engineering	448
" " " " Graduate Faculty	776
" " Department of	288
Geometry, Matriculation	137, 150
Geometry, Descriptive	445
German—For Matricultion	134, 148
German, Courses in Arts and Science	290
" " " " Commerce	371
" " " " Graduate Faculty	778
" Department of	290
Governing Body	5
Government of the University	87
Governor-General's Gold Medal	189
Governor-General's Silver Medal	189
Governors, Board of	5
Graduate Courses in Medicine	524
Graduate Fellowships	738
Graduate Nurses, School for	116, 853, 859–866
Graduate Students' Association	741
Graduate Studies and Research, Faculty of	115
Graduates' Society	14
Graduating Essay in Law	608
Grant, Provincial Government	909, 967
Greek Courses in Arts and Science	271
" " " Graduate Faculty	764
" Matriculation	135, 148
Gynæcology	519
Harrington (Dr. B. J.) Bursary	206
Health Service	92, 93, 409 496, 900, 906

PAGE

Hersey (Dr. Milton L.) Prize 194
High School Diploma 247, 277
Higher Degrees. *See Graduate Studies and Research.*
Higher Diploma in Physical Education 833, 967
Hils (Joseph) Prize 198
Histology and Embryology 262, 498
Historical Society's Prize 190
History, Ancient 274
History, Courses in Arts and Science 293
" " " Graduate Faculty 778
" Department of 293
" Matriculation 135, 149
" of the Royal Victoria College 95
" of the University 87, 111
Hoare (Walter J.) Scholarship 200
Hodgson (Madelene) Prize 190
Hodgson (Sidney J.) Scholarships 180
Holmes Gold Medal 198
Honour Courses for B.A. 249, 253
For B.Sc 255, 258, 259, 260
Honour Degrees 120
Horticulture, Courses in 780
Hospitals 527
Household Science, School of 116, 889, 953, 962
Houston Scholarship 187
Howard (Campbell) Prize 199
Hunt (Dr. T. Sterry) Scholarship 205
Hurlbatt (Ethel) Scholarship 192
Hutchinson (Blanche) Research Fund 207
Hygiene, Courses in 505

Immigration 91
Immunity. *See Bacteriology.*
I.O.D.E. Scholarships (Post Graduate) 210
Incorporated Colleges 88
Industrial Management 383
Instructorships 203
Instruments, Dental 566
Interim Tests 251
International Law, Course in 609

Jackson (Slater) Prize 199
Jacobs (Joseph H.) Prize 192
Jenkins Brothers' Scholarship 196
Jewish Women (Local Council of) Scholarship 192
Johnson (Phelps) Prize 194

	PAGE
Jones (Hon. Robert) Bursary	179, 196
Joseph (Ethel Walkem) Prize	191
Junior Matriculation Examination	122, 124
Jurisprudence, Dental	575
Khaki University and Y.M.C.A. Memorial Scholarship Fund	183
Laboratories	797
Language Examinations (Ph.D.)	748
Latin, Courses in Arts and Science	273
" " " Graduate Faculty	764
" Matriculation	137, 150
Law (Clara) Fellowship	207
Law for Engineers	448
Law, Faculty of	113
Law in the Faculty of Arts and Science	296
Law in the School of Commerce	371
Lectures in:—	
Architecture	436
Arts and Science	262
Commerce	367
Dentistry	569
Engineering	415
Graduate Nurses, School for	859, 866
Graduate Faculty	753
Law	609
Library School	808
Medicine	497
Physical Education	833
Legal History, Course in	610
Leonard Foundation Scholarships	183
LeRoy Fellowship	205
Libraries, Local	797
Library, Dental	581
Library, Law	607
Library, Macdonald College	981
Library, Medical	529
Library, Osler	530
Library School	806–814
Library School, Courses in	808–814
Library, The University	991
Licence Requirements in Dentistry	564
" " " Medicine	495
Licentiate in Accountancy, Diploma of	381
Licentiate in Music, Diploma of	651
Lieutenant-Governor's Medals	189, 193, 197, 198 200, 201, 212

PAGE

Limited Undergraduates 119, 239
Loan Funds 176, 184, 185, 247
General Statement 175
In Commerce 193
In Engineering 412
In the Royal Victoria College 192
University Loan Fund 495
Local Centres, Music 676

Lodgings. *See Board and Residence.*
Logan Bursaries 191
Logan Gold Medal 189
Lyman (Hannah Willard) Scholarship 188

McCall (James Darling) Scholarship 188
McCord National Museum 992
McCrae (John) Fellowship 207
Macdonald College 882–983
Graduate Students 738, 943
Macdonald College Alumni Association Scholarship 209
Macdonald High School 974
Macdonald (Sir William) Scholarships 186
Macdonald (Sir William) Entrance Scholarships 178
Macdonald (Sir William) Memorial Scholarship in Music 202
Macdonald (Sir William) Travelling Scholarship in Law 208
McGill College 112
Macintosh (Annie) Prize 189
MacKay (H. M.) Memorial Scholarship 196
Mackenzie (Alexander) Fellowship 204
Mackenzie Scholarships 188
McLennan (Hugh) Memorial Scholarship 206
Macnaghten (Chester) Prize 184
MacRae (Isabella) Scholarship 181
Mailhiot (Adolphe) Prize 201
Major and Minor Subjects in the Faculty of Graduate Studies 742
Marceau (Ernest) Prize 195
Marks, Classification of 120, 245, 414, 743
Marine Insurance 372
Maritime Law 610

Master of Arts, Engineering, etc. *See Degrees, Regulations for.*
Mathematics, Courses in Accountants' Course 378
" " " Arts and Science 296
" " " Commerce 372, 373
" " " Engineering 449
" " " Graduate Faculty 781
" Department of 296
" Matriculation 137, 150

	Page
Matriculation:—	
Junior Matriculation	122, 124
Senior Matriculation	122, 141
Mechanical Engineering, Curriculum	450
Department and Courses	424
Graduate Courses in	782
Medals in Arts and Science	247
" " Commerce	193
" " Dentistry	566
" " Engineering	197
" " Gymnastics	214
" " Law	605
" " Macdonald College	975, 976, 978, 981
" " Medicine	495
" " School of Physical Education	214
Medical Building	525
Medical Council Registrars	496, 497
Medical Examination	409, 805
Medical Library	529
Medical Societies	530
Medicine, Courses in	497
Medicine, Courses in (Dentistry)	571
Medicine, Department of	508
Medicine, Faculty of	112
Regulations	490
Medicine, Requirements for Licence to Practise	495
Members of Staff: Graduate Faculty	736
Faculty of Music	636
Metallurgical Engineering, Curriculum	456
Courses	426
Department	426
Field School	456
Graduate Courses in	784
Metallurgy (Dental)	575
Microscopes	490
Microscopic Anatomy. *See Anatomy.*	
Military Training	994
Mills (Major Hiram) Gold Medal	189
Mills (Major Hiram) Scholarship	187
Mineralogy, Courses in Arts and Science	288
" " " Engineering	448
" " " Graduate Faculty	776
Mining and Metallurgical Engineering, Curriculum	454
Department and Courses	429
Graduate Courses in	783
Field Schools	455
Research Fellowships	205

	PAGE
Minor Subjects in the Faculty of Graduate Studies	742
Molson (Anne) Gold Medal	189
Molson (Anne) Prize in Chemistry	191
Montreal Bar Association Prize	201
Montreal Dental Club Gold Medal	200
Montreal Foundling and Baby Hospital	528
Montreal General Hospital	528
Montreal General Hospital Alumnae Scholarship	213
Montreal Light, Heat & Power Company's Prizes	194
Montreal Neurological Institute	526
Morris (Alexander) Exhibition	201
Mount Royal Dental Society's Prizes	200
Moyse Travelling Scholarships	203
Museums	581, 992
Music Examinations	649
Music, Courses in Arts and Science	299
Music, Facts of Historical Interest	642
Music, Public Events during 1939-40	643
Music, Faculty of	115
" " Regulations	646
Music for Matriculation	138, 150
Music, Local Centres	676
Narcissa Farrand Scholarship	181
National Research Council Scholarships	210
Natural Science	265, 287, 288, 316
Neurological Institute, Montreal	526
Neurology and Neurosurgery, Courses in Medicine	514
" " " Graduate Faculty	785
" " " Department of	514
Notaries	611
Nurses, School for Graduate	853
Nutrition, Animal	755
Nutting (Charles Albert) Prize	201
Obstetrics, Courses in	519
" Department of	519
Office Attendance in Law	607
Officers of Instruction	3–56
Officers' Training Corps	994
Officials, University	3
Oliver (Allen) Fellowship	204
Oliver (Allen) Gold Medal	189
Ontario Graduates' Society Loan Fund	185
Operative Dentistry	577
Ophthalmology, Department and Courses	522
Orthodontia	578

	Page
Orthopedic Surgery	516
Osler Library	530
Osler Memorial Scholarship	207
Osler Society	531
Oto-Laryngology, Department and Courses	523
Ottawa Valley Graduates' Society's Bursaries	179
Pædiatrics	513
Palæontology, Courses in Arts and Science	289
" " Graduate Faculty	777
Parasitology	504, 786, 889
Partial Students	119, 240, 807, 913, 953
Part-time Employment	99
Pass Mark. *See Classification.*	
Pathological Chemistry. *See Biochemistry.*	
Pathological Institute	526
Pathology, Courses in Dentistry	570
" " " Medicine	501
" " " Graduate Faculty	787
Pathology, Plant	794
Penhallow Prize	190
Period of Study	119, 239
Peterson Memorial Prize	190
Peterson Memorial Scholarship in Classics	187
Peterson Memorial Scholarships in Music	202
Pettes, Mrs. N. (Narcissa Farrand) Scholarship	181
Pharmacology in Dentistry	570, 574
" in Medicine	506
" in the Graduate Faculty	787
" Department of	506
Philology, Comparative	764
Philosophy, Courses in Arts and Science	302
" " Graduate Faculty	788
" Department of	302
Physical Education, Department of	830–837
Physical Education, School of	116, 829, 833–837
Physical Education (School of) Gold Medal	212
Physical Examination	92
Physical Geography	138
Physics:—	
Courses in Arts and Science	305
" Engineering	458
" Commerce	373
" the Graduate Faculty	788, 793
" Department of	305
For Matriculation	138, 151

	PAGE
Physics, Engineering	261, 459
Physiology, Courses in Arts and Science	309
" " Graduate Faculty	793
" " Medicine	499
" " Dentistry	573
" Department of	309
Plant Pathology	794
Political Science, Courses in Arts and Science	275
" " " Commerce	367
" " " Graduate Faculty	765
" " Department of	275
Porter (Dr. J. B.) Prize	194
Porter (Dr. J. B.) Scholarship	206
Pre-Professional Courses in Arts and Science	243
Presbyterian College	89
Presbyterian College Scholarships	181
Preventive Medicine	504
Primary Prize in Medicine	199
Prince of Wales Gold Medal	189
Privileges for Holders of Degrees in Engineering	413
Prizes in Arts and Science	191, 247
In Agriculture	976, 977
In Engineering	194
In Commerce	192
In Dentistry	200, 566
In Gymnastics	214
In Law	605
In Medicine	199, 495
In the School for Graduate Nurses	856
In the School of Physical Education	832
In the School for Teachers	978, 981
Probation, Regulations in Arts and Science	246
Professional Faculties, Entrance to	121, 243
Professors, Emeritus	15
Professors, List of	3–56
Promotion in Agriculture	942
Promotion in Arts and Science	245
" Dentistry	568
" Engineering	461
" Medicine	494
Prosthetic Dentistry	579
Province of Quebec Scholarships	211
Provincial Registration for Medical Students	496
Provincial Registration for Dental Students	564
Psychiatry	508

	Page
Psychology, Courses in Arts and Science	310
" " Commerce	374
" " Graduate Faculty	795
" Department of	310
Public Examinations for Degrees and Diplomas in Music	646, 648, 649, 651, 652, 663, 668, 669, 670, 671, 672, 676, 720
Public Health, Department of	504
Public Health (Dental)	571
Public Health, Diploma of	524
Public Health Nursing	860
Public Local Examinations in Music	673, 674, 676, 680, 719
Quebec (Province of) Scholarships	211
Radiology	516
Reciprocity with Great Britain (Medicine)	496
Redpath (Jane) Scholarship	186
Redpath (Peter) Museum	992
Reford Scholarship	186
Registered Nurses' Scholarship	213
Registrars of Provincial Dental Councils	564
Registrars of Provincial Medical Councils	496
Registration in Arts and Science	119, 242
Registration in Commerce	356
" " Dentistry	564
" " Engineering	409
" " Graduate Nurses	856
" " Graduate Studies and Research	737
" " Law	604
" " Library School	805
" " Macdonald College	899, 900
" " Medicine	488
" " Music	644
" " Physical Education	832
Registration Figures	995
Research Assistants (Temporary)	742
Research Associates	55, 741
Research, Social. *See Social Sciences Research.*	
Research Council Scholarships (National)	210
Research Fellows	55, 742
Residence. *See Board and Residence.*	
Rhodes Scholarships	210
Robertson (Louis) Prize	194
Roman Law, Courses in	609

PAGE

Romance Languages. *See French.*
Ross (P. S.) Bursary 179
Rowat (Thomas Alexander) Scholarship 201
Royal Architectural Institute of Canada Medal 197
Royal Commissioners for 1851 Scholarship 209
Royal Edward Institute 529
Royal Society of Canada Fellowships 209
Royal Victoria College 95
Royal Victoria College Scholarships, Bursaries and Loans 191, 192
Royal Victoria Hospital 527
Royal Victoria Montreal Maternity Pavilion 527
Royal Victoria Hospital Scholarships 213

Sanitary Science 444
Scholars, University 56
Scholarships, Bursaries, Prizes and Medals 173–219
Agriculture 202, 975, 976
Architecture 187
Arts and Science 121, 187, 188, 247
Commerce 358
Dentistry 567
Engineering 412
Entrance 177, 178
General Regulations 175
Graduate 738
Graduate Nurses, School for 856
Law 605
Library School 807
Medicine 495
Music 647
Open to Students in all Faculties 183
Royal Victoria College 191
School for Teachers 202, 965, 980
University Bursaries 175, 183
University Scholarships 175
School, The Library 116
School of Architecture 114
School of Commerce 353–385
School of Household Science 116
School for Graduate Nurses 853–866
School for Teachers 889, 963
School of Physical Education 830–837
Science in Economic Life 374
Scientific Management, Course in 360
Scott (Barbara) Scholarship 186
Scott Exhibition 194

	Page
Second Year Scholarships in Arts and Science	186
Senate	6
Senior Matriculation Examination	122, 141, 407
Shakspere Gold Medal	189
Sharp (F. W.) Prize in Commerce	192
Shaw (Flora Madeline) Memorial Fund	213
Shriners' Hospital Scholarship	213
Silver (Edith) Delta Phi Epsilon Sorority Bursary	188
Siscoe Gold Mines Scholarship	210
Snyder (Charles William) Scholarship	187
Societies, Engineering	414
Societies, Medical	530
Society of Chartered Accountants' Prize	192
Society of Chemical Industry Prize	195
Sociology, Courses in Arts and Science	314
" " Graduate Faculty	796
" Department of	314
Spanish, Courses in Arts and Science	315
" " Commerce	375
" Department of	315
For Matriculation	140, 151
Spanish Government Prize	192
Sports:—	
For Men	99
For Women	99
Staff	3–56, 891
Standing Committees of Governors and Senate	7
Stewart (Alexander D.) Prize	199
Stewart (Neil) Prize	184
Strathcona Hall	94
Strathcona Prizes for Physical Education	214
Students, Classes of	239, 737
Students in Attendance	1000
Summer Essays and Reading in Engineering	431
Summer Schools:—	
In Architecture	431
In Engineering	430
In French	117
In Metallurgy	456
In Mining	455
In Surveying	460
Summer Work in Agriculture	926
Supplemental Examinations	245, 919, 943, 956
Supplementary Courses in Accountancy	382
Surgery, Courses in Medicine	515
" " Dentistry	573
" Department of	515

	Page
Surgery, Dental	573
Surveying	460
Sutherland Gold Medal	198
Syllabi at Macdonald College	944–952
Teacher-Librarians, Courses for	807
Teachers, School for	889, 963
Teachers, Training of	117, 277
Terms	121
Tests (Interim)	251
Theological Colleges, Affiliated	88
Theological College Scholarships	181
Theological Studies, Graduate Courses in	797
Therapeutics, Courses in Dentistry	574
" " Medicine	506, 509
Theses, Regulations	750
Third Year Scholarships in Arts and Science	187
Tighe (James) Prize	194
Time-Table, Music	639
Torrance (Elizabeth) Gold Medal	201
Trafalgar (Grace Fairley) Scholarship	181
Training of Teachers	277
Transportation, Course in	372
Trigonometry	138, 150
Turner (P. J.) Prize	194
Undergraduates	119, 239
Undergraduate Medical Society	530
Undergraduate Society's Prize in Engineering	195
United Theological College	88
United Theological College Bursaries	181
University Bursaries	183
University Entrance Scholarships	177
University Scholars	56
University Scholarships	176, 977
University Loan Fund	176
University Women's Federation Scholarships	211
Urology, Course in	516
Vaccination	92
Vaughan (Susan Cameron) Scholarship	192
Verdun Protestant Hospital	529
Victorian Order of Nurses' Scholarship	213
Waddell Loan Fund	197, 206
Wales (Prince of) Gold Medal	189

	PAGE
Western General Hospital	528
Wicksteed Medals for Physical Education	214
Williams (Dr. J. Francis) Fellowship	207
Withdrawal from the Faculty of Arts and Science	246
Women Associates of McGill Bursary	184
Women Students	118, 239
Wood Gold Medal	198
Workman Student	193
Y.M.C.A. Memorial Scholarship Fund	183
Zoology, Courses in Arts and Science	316
" " Graduate Faculty	797
" Department of	316
Zoology, Prizes in	191

McGILL UNIVERSITY

MONTREAL

DIRECTORY OF STAFF

1940-41

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

Principal.....F. Cyril James, B.Com., M.A., Ph.D.
Secretary and Bursar.....F. O. Stredder, M.A., Ph.D. (on leave of absence for war service).
Registrar.....T. H. Matthews, M.A.
Acting Bursar.....William Bentley, C.G.A., A.C.I.S.
Director of Extra-Mural Relations...Wilfrid Bovey, O.B.E., B.A., LL.B., D.Litt., F.R.S.C.
Librarian.....G. R. Lomer, M.A., Ph.D., F.L.A.
Warden of the Royal Victoria College.Muriel V. Roscoe, M.A., Ph.D.
Warden of Douglas Hall.....W. Bruce Ross, M.Sc., Ph.D.
Superintendent of Buildings.....P. W. MacFarlane

FACULTY OF ARTS AND SCIENCE

Dean of the Faculty.....Hon. Cyrus Macmillan, M.A., Ph.D., M.P.
Chairman, Humanities Group.....Roderick D. Maclennan, M.A.
Chairman, Biological Sciences Group.David L. Thomson, M.A., Ph.D., F.R.S.C.
Chairman, Physical Sciences Group..W. H. Hatcher, M.Sc., Ph.D., F.R.S.C.
Chairman, Social Studies and Commerce Group.....Percy E. Corbett, M.A., LL.D.
Acting Director of the School of Commerce.....E. F. Beach, M.A., Ph.D.
Assistant to the Dean of the Faculty.P. F. McCullagh, M.A., Ph.D.

FACULTY OF MEDICINE

Dean.....J. C. Simpson, B.Sc., LL.D.
Associate Dean.....J. C. Meakins, M.D., C.M., LL.D., F.R.C.P., F.R.S.C.
Secretary.....J. F. McIntosh, B.A., M.D., C.M.

FACULTY OF ENGINEERING

Dean.....Ernest Brown, M.Sc., M.Eng.
Acting Director of the School of Architecture.....Philip J. Turner, F.R.I.B.A., F.R.A.I.C.
Secretary.....R. de L. French, B.Sc., C.E.

FACULTY OF DENTISTRY

Dean.....A. L. Walsh, D.D.S.

FACULTY OF MUSIC

Dean.....Douglas Clarke, M.A., Mus.B., F.R.C.M., F.R.C.O.
Vice-Director and Secretary of the Conservatorium.....R. de H. Tupper

FACULTY OF LAW

Dean.....C. S. Le Mesurier, K.C,. B.A., B.C.L.
Secretary.....John P. Humphrey, B.Com., B.A., B.C.L.

FACULTY OF GRADUATE STUDIES AND RESEARCH

Dean.....J. J. O'Neill, M.Sc., Ph.D., F.R.S.C.

LIBRARY SCHOOL

Director.....G. R. Lomer, M.A., Ph.D., F.L.A.

DEPARTMENT OF PHYSICAL EDUCATION

Director.....A. S. Lamb, B.P.E., M.D., C.M.
University Medical Officer.....Frank G. Pedley, B.A., M.D., C.M., C.P.H., Dr. P.H.
Physical Director for Women.....Iveagh Munro, B.Sc., M.A.
Athletics Manager.....Hay Finlay, Dip. M.S.P.E. (during the absence of Lieut.-Col. D. S. Forbes on war service).

SCHOOL FOR GRADUATE NURSES

Director.....Marion Lindeburgh, R.N., M.A.

MACDONALD COLLEGE

Vice-Principal of the College and Dean of the Faculty of Agriculture. W. H. Brittain, M.S. in Agr., Ph.D., F.R.S.C.
Dean, School for Teachers.....Sinclair Laird, B.Phil., M.A.
Director, School of Household Science.....Margaret S. McCready, B.A.
Secretary.....T. Fred Ward
Registrar.....A. B. Walsh, B.Sc. (Agr.).
Warden, Women's Residence.....Mrs. Marian G. Strang.
Warden, Men's Residence.....R. J. Hilton, Ph.D.

1940-41

GOVERNING BODY OF THE UNIVERSITY

Visitor

His Excellency the Right Honourable The Earl of Athlone, K.G., Governor-General of Canada.

The Board of Governors

Sir Edward Beatty, G.B.E., K.C., D.C.L., LL.D., Chancellor.
F. Cyril James, B.Com., M.A., Ph.D., Principal and Vice-Chancellor.
W. M. Birks.
John W. Ross, LL.D.
Sir Herbert S. Holt, Kt., LL.D.
Huntly R. Drummond.
J. W. McConnell.
F. N. Southam.
Walter M. Stewart.
W. W. Chipman, B.A., M.D., LL.D., D.C.L., F.R.C.S. (Edin.).
George C. McDonald, M.C., B.A.
George S. Currie, D.S.O., M.C., B.A.
Arthur B. Purvis.
Arthur B. Wood, B.A., F.I.A., F.A.S.
Paul F. Sise, B.Sc.
Hon. A. K. Hugessen, K.C., B.A., B.C.L.
Morris W. Wilson, D.C.L.
Colonel A. A. Magee, D.S.O., K.C., B.A.
C. W. Colby, M.A., Ph.D., LL.D., D.C.L., F.R.S.C.
Lewis W. Douglas, B.A., LL.D.
Walter Molson, B.A.
George F. Stephens, M.D., C.M.
John T. Hackett, K.C., B.C.L., B.L.
C. G. Mackinnon, B.A., B.C.L.
A. T. Bazin, D.S.O., M.D., C.M., F.R.C.S. (C).

Principal

F. Cyril James, B.Com., M.A., Ph.D.

THE SENATE

Ex-officio Members

Chancellor	Sir Edward Beatty	
Principal and Vice-Chancellor	F. Cyril James, *Chairman*	
Deans	Professor Douglas Clarke	Dean of the Faculty of Music
	Professor E. Brown	Dean of the Faculty of Engineering
	Professor J. J. O'Neill	Dean of the Faculty of Graduate Studies and Research
	Professor W. H. Brittain	Dean of the Faculty of Agriculture
	Professor C. S. Le Mesurier	Dean of the Faculty of Law
	Professor J. C. Simpson	Dean of the Faculty of Medicine
	Professor Cyrus Macmillan	Dean of the Faculty of Arts and Science
	Professor A. L. Walsh	Dean of the Faculty of Dentistry
Warden of the Royal Victoria College	Dr. Muriel V. Roscoe	
Director of the School for Teachers	Dean Sinclair Laird	
Group Chairmen of the Faculty of Arts and Science	Professor P. E. Corbett	
	Professor W. H. Hatcher	
	Professor R. D. Maclennan	
	Professor D. L. Thomson	

Elected Members

From the Board of Governors	W. M. Birks
	Dr. W. W. Chipman
	A. B. Wood
	Hon. A. K. Hugessen
	John T. Hackett
From the Faculty of Arts and Science	Professor C. E. Fryer (Arts)
	Professor Otto Maass (Science)
From the Faculty of Medicine	Professor J. C. Meakins
	Professor Grant Fleming
From the Faculty of Engineering	Professor R. E. Jamieson
	Professor W. G. McBride
From the Faculty of Law	Professor W. F. Chipman
From the Faculty of Agriculture	Professor W. Rowles
Secretary	The Registrar

1940-

COMMITTEES

EXECUTIVE AND FINANCE COMMITTEE OF THE BOARD OF GOVERNORS

For 1940-41

The Chancellor, *Chairman*
The Principal, *Vice-Chairman*
W. W. Chipman
J. W. McConnell
George C. McDonald
A. B. Purvis
A. B. Wood
M. W. Wilson
G. S. Currie
W. Bentley, *Acting Secretary*

INVESTMENT COMMITTEE OF THE BOARD OF GOVERNORS

The Chancellor, *Chairman*
The Principal
J. W. McConnell
G. S. Currie
M. W. Wilson
A. B. Wood
J. A. Eccles (*Investment Manager*)
W. Bentley, *Acting Secretary*

REAL ESTATE INVESTMENT COMMITTEE OF THE BOARD OF GOVERNORS

J. W. Ross, *Acting Chairman*
The Principal
G. S. Currie
Walter Molson
H. B. McLean
W. Bentley, *Acting Secretary*

BUILDING COMMITTEE OF THE BOARD OF GOVERNORS

Walter Molson, *Chairman*
The Chancellor
The Principal
P. F. Sise
A. A. Magee
John T. Hackett
W. Bentley, *Acting Secretary*

STANDING COMMITTEES OF SENATE

(The Principal is ex-officio a member of all Senate Committees)

ADVISORY COMMITTEE ON AGRICULTURE

(Macdonald College)

W. H. Brittain, M.S. in Agr., Ph.D., F.R.S.C., Vice-Principal, Macdonald College (*Chairman*).
The Principal
Robert Newton, B.S.A., M.Sc., Ph.D., D.Sc., F.R.S.C., Ottawa, representing the National Research Council.
J. M. Swaine, Ph.D., F.R.S.C., Ottawa, representing the Dominion Department of Agriculture.

L. Philippe Roy, D.Sc.A., D.V.M., Ste. Hyacinthe.
Georges Maheux, F. I., Quebec. } representing the Quebec Department of Agriculture.

F. E. M. Robinson, M.A., Upper Melbourne, Que.
R. R. Ness, Howick, Que. } representing the live stock farming industry

Morley Honey, Abbotsford, Que., representing the fruit farming industry.

ASSOCIATE COMMITTEE ON PARASITOLOGY
(Macdonald College)

C. J. MacKenzie, M.C., B.E., M.C.E., Acting President, National Research Council, Ottawa.
F. Cyril James, B.Com., M.A., Ph.D., Principal, McGill University. } *Joint Chairman*

Robert Newton, B.S.A., M.Sc., Ph.D., D.Sc., F.R.S.C., *Vice-Chairman*, Director, Division of Biology and Agriculture, National Research Council, Ottawa.

G. S. H. Barton, C.M.G., B.S.A., D.Sc.A., Deputy Minister of Agriculture, Ottawa.

W. H. Brittain, M.S. in Agr., Ph.D., Vice-Principal, Macdonald College.

A. E. Cameron, V.S., Chief Veterinary Inspector, Department of Agriculture, Ottawa.

T. W. M. Cameron, T.D., B.Sc., M.A., Ph.D., D.Sc., M.R.C.V.S., Director of the Institute of Parasitology, Macdonald College.

R. L. Conklin, M.Sc., D.V.M., Veterinarian and Professor of Animal Pathology, Macdonald College.

J. C. Simpson, B.Sc., LL.D., Dean of the Medical Faculty, McGill University.

R. T. Leiper, M.D., D.Sc., F.R.S., Director, Imperial Bureau of Agricultural Parasitology and of the Institute of Agricultural Parasitology, London, England.

Lionel Stevenson, B.V.Sc., M.S. Provincial Zoologist, Ontario Department of Agriculture, Ontario Veterinary College, Guelph, Ont.

J. M. Swaine, Ph.D., F.R.S.C., Director of Research, Dominion Department of Agriculture, Ottawa.

T. Fred Ward, Secretary, Macdonald College.

E. A. Watson, V.S., Chief Pathologist, Dominion Department of Agriculture, Hull, Que.

Maxime Veilleux, V.S., Chief, Health of Animals Service, Quebec Department of Agriculture, Quebec.

S. P. Eagleson, Secretary-Treasurer, National Research Council, Ottawa (*Secretary*).

COMMITTEE ON EXTENSION LECTURES

Dr. W. Bovey, *Chairman*
The Principal
Professor E. R. Adair
Professor R. D. Maclennan
Professor J. P. Humphrey
Professor C. L. Huskins
The Registrar, *Secretary*

ADULT EDUCATION COMMITTEE

Dean W. H. Brittain, *Chairman*
The Principal
Dr. W. Bovey
Professor John Hughes
J. Alex. Sim
The Registrar, *Secretary*

THE UNIVERSITY LIBRARY COMMITTEE

Professor J. C. Hemmeon, *Chairman*
Dr. G. R. Lomer, *Vice-Chairman*
The Principal
Dean Cyrus Macmillan
Professor D. L. Thomson
Professor W. H. Hatcher
Professor P. E. Corbett
Professor R. D. Maclennan
Professor E. R. Adair
Professor R. deL. French
Professor A. N. Shaw
Professor R. L. Stehle
Professor W. L. G. Williams
The Registrar, *Secretary*

LODGINGS COMMITTEE

The Registrar, *Chairman*
The Principal
Dr. A. S. Lamb
Dr. N. W. Morton

LYMAN ENTOMOLOGICAL COMMITTEE

Dean W. H. Brittain, *Chairman*
The Principal
Dr. A. Gibson
George A. Moore

CONSULTATIVE COMMITTEE FOR MACDONALD HIGH SCHOOL

Dean W. H. Brittain, *Chairman*
The Principal
Dean Sinclair Laird
Professor John Hughes
T. Fred Ward

The Members of the Protestant School Boards of Ste. Anne de Bellevue, Baie d'Urfe, Senneville and Vaudreuil Dorion.

MACDONALD COLLEGE LIBRARY COMMITTEE

Dean W. H. Brittain, *Chairman*
The Principal
Dean Sinclair Laird
Miss M. S. McCready
Professor J. C. Hemmeon
Dr. G. R. Lomer

MATRICULATION BOARD

Dean E. Brown, *Chairman*
The Principal
Dean Cyrus Macmillan
Professor W. H. Hatcher
Professor C. C. Bayley
The Rrgistrar, *Secretary*

THE UNIVERSITY MATRICULATION EXAMINATIONS COUNCIL

The Matriculation Board
Professor John Hughes
Dean Sinclair Laird
A Representative of the Headmasters' Association
A Representative of the Headmistresses' Axsociation
One Member Representing the Protestant Committee of the Council of Public Instruction
One Member Representing the Provincial Association of Protestant Teachers

The Principal of the University is the Chairman of the Council and the Registrar is the Secretary.

COMMITTEE ON MILITARY INSTRUCTION

The Principal, *Chairman*
Professor R. R. Thompson
Dean Douglas Clarke
Dean W. H. Brittain
Dean E. Brown
Dean C. S. LeMesurier
Dean Cyrus Macmillan
Dean J. J. O'Neill
Dean J. C. Simpson
Dean A. L. Walsh
Lt.-Col. J. M. Morris
Lt.-Col. W. Bovey
Lt.-Col. E. B. Q. Buchanan
Lt.-Col. D. S. Forbes
Professor J. P. Day
Lt.-Col. E. G. Hanson
Colonel Wyatt Johnson
Major D. H. Macfarlane
Professor C. M. McKergow
Lt.-Col. N. B. MacLean
Colonel A. A. Magee
Lt.-Col. T. S. Morrisey
Colonel C. B. Price
Lt.-Col. Gilbert Stairs
Colonel H. M. Wallis
Major J. W. Jeakins

One representative from the Army.
One representative from the Royal Canadian Air Force.
One representative from the Royal Canadian Navy or Naval Reserve.

The Registrar, *Secretary*.

Executive Committee on Military Instruction

The Principal, *Chairman*
Dean W. H. Brittain
Dean Cyrus Macmillan
Lt.-Col. J. M. Morris
The Registrar, *Secretary*

THE UNIVERSITY MUSEUM COMMITTEE

The Principal, *Chairman*
Professor T. H. Clark
Huntly Drummond
Dr. G. R. Lomer
E. L. Judah
Professor C. P. Martin
F. C. Morgan
Dean J. J. O'Neill
Professor V. C. Wynne-Edwards
The Registrar, *Secretary*

COMMITTEE ON PHYSICAL EDUCATION

The Principal, *Chairman*
Dean J. C. Simpson, *Vice-Chairman*
Dean Cyrus Macmillan
Dr. Muriel V. Roscoe
Professor Grant Fleming
Hon. A. K. Hugessen
Professor C. L. Huskins
J. C. Gordon Young, *ex officio* and by invitation.
Maryellen Rossiter, *ex officio* and by invitation.
D. L. Gales, *ex officio* and by invitation.
Dr. A. S. Lamb, *Secretary*.

ATHLETICS BOARD

The Principal, *Chairman*
Dr. A. S. Lamb, *Vice-Chairman*
Professor C. H. Carruthers
Professor R. deL. French
Professor D. A. Keys
D. L. Gales
J. H. Murphy
H. E. Herschorn
J. C. Gordon Young, *ex officio*
R. G. Townsend
Hay Finlay, *Secretary*

UNIVERSITY SCHOLARSHIPS COMMITTEE

Professor W. D. Woodhead, *Chairman*
The Principal
Dean Cyrus Macmillan
Dean J. C. Simpson
Dean E. Brown
Dean J. J. O'Neill
Dean C. S. Le Mesurier
Dr. Muriel V. Roscoe
Professor D. A. Keys
Professor C. M. McKergow
Professor D. L. Thomson
Acting Bursar
The Registrar, *Secretary*

COMMITTEE ON THE SCHOOL FOR GRADUATE NURSES

Professor Grant Fleming, *Chairman*
The Principal
Professor J. C. Meakins
Dean J. C. Simpson
Dr. Muriel V. Roscoe
Professor John Hughes
Miss Marion Lindeburgh, *Secretary*

UNIVERSITY TIME-TABLE COMMITTEE

Professor W. H. Hatcher, *Chairman*
Professor A. J. Kelly
Professor P. F. McCullagh
Dean J. C. Simpson

STANDING COMMITTEES OF THE FACULTY OF ARTS AND SCIENCE

Session 1940-41

THE B.A. ADVISORY COMMITTEE

Dean Cyrus Macmillan, *Chairman*
Professor C. A. Dawson
Professor C. E. Fryer
Professor W. L. Graff
Professor J. C. Hemmeon
Professor John Hughes
Professor R. D. Maclennan
Professor C. T. Sullivan
Professor W. D. Tait
Professor W. D. Woodhead

THE B.COM. ADVISORY COMMITTEE

Professor E. F. Beach, *Chairman*
Professor P. E. Corbett
Professor J. P. Day
Professor W. H. Hatcher
Professor J. C. Hemmeon
Dean Cyrus Macmillan
Professor H. Tate
Professor R. R. Thompson

THE B.Sc. ADVISORY COMMITTEE

Dean J. J. O'Neill, *Chairman*
Professor W. H. Hatcher
Professor C. L. Huskins
Professor O. Maass
Professor G. W. Scarth
Professor A. N. Shaw
Professor D. L. Thomson

The B.A., B.Sc., and B.Com. Advisory Committees also act together as a General Advisory Committee.

SCHOLARSHIPS COMMITTEE

Professor D. A. Keys, *Chairman*
Professor E. R. Adair
Professor C. L. Huskins
Professor C. E. Kellogg
Dean Cyrus Macmillan
Professor A. S. Noad
Dean J. J. O'Neill
Professor Muriel V. Roscoe
Professor W. D. Woodhead

COMMITTEE OF THE BOARD OF STUDENT ADVISERS

Professor John Hughes, *Chairman*
Professor W. H. Hatcher
Professor P. F. McCullagh
Dean Cyrus Macmillan
Professor T. F. M. Newton
Professor Muriel V. Roscoe
Professor R. R. Thompson

STANDING COMMITTEES OF THE FACULTY OF ENGINEERING

Admission to Advanced Standing from Other Universities
Professors A. R. Roberts (*Chairman*), N. B. MacLean and R. E. Jamieson

Examinations and Time-Tables
Professors A. J. Kelly (*Chairman*), F. M. Wood, J. B. Phillips, and J. C. Coote

Registration, Standing, and Promotion
Professors C. M. McKergow (*Chairman*), N. B. MacLean, R. E. Jamieson, J. B. Phillips, and J. U. MacEwan

Employment
Professors R. deL. French (*Chairman*), C. V. Christie, and A. R. Roberts

ADVISORY COMMITTEE ON THE SCHOOL OF ARCHITECTURE

Professor P. J. Turner (*Chairman*), Messrs. E. I. Barott, R. E. Bolton, H. L. Fetherstonhaugh, J. C. McDougall
Dean E. Brown, *ex officio*

COMMITTEE ON RESEARCH—FACULTY OF GRADUATE STUDIES AND RESEARCH

Dean J. J. O'Neill, *Chairman*

Professor J. S. Foster
Professor Otto Maass
Professor Wilder Penfield
Professor J. B. Collip
Professor C. L. Huskins
Professor W. D. McFarlane
Professor E. R. Adair
Professor J. C. Hemmeon

GRADUATES SOCIETY

Officers for 1940-41

President—G. McL. Pitts, M.Sc., '09, B. Arch. '16.

First Vice-President—H. R. Cockfield, M.A. '11.

Second Vice-President—E. G. McCracken, B.Sc., '24.

Honorary Secretary—Wm. F. Macklaier, B.C.L. '23.

Honorary Treasurer—E. A. Leslie, B.Sc. '16.

Representatives on the Board of Governors of the University:—John T. Hackett, B.C.L. '09, Mr. Justice C. G. Mackinnon, B.A. '00, B.C.L. '03, Dr. A. T. Bazin, M.D., C.M. '94.

Executive Secretary—G. B. Glassco, B.Sc. '05.

Executive Committee

H. A. Crombie, B.Sc. '18.

A. B. McEwen, B.Sc. '12.

F. G. Robinson, B.A. '05.

W. G. Hunt, B.Sc. '17.

Wm. J. McNally, M.Sc. '25, D.Sc. '34.

Miss A. Muriel Wilson, M.A. '11, *President, Alumnae Society.*

E. Winslow-Spragge, B.Sc. '08, *President, Montreal Branch.*

F. I. Ker, B.Sc. '09, *President, Central Ontario Branch.*

R. L. Gardner, B.A. '99, M.D. '01, *President, Ottawa Valley Branch.*

C. K. Church, B.A. '13, M.D. '16, *President, New York Branch.*

J. C. G. Young, B.Sc. '37, Med. '41, *President, Students' Society.*

H. E. MacDermot, M.D., C.M. '13, *Chairman of Editorial Board, "The McGill News".*

EMERITUS PROFESSORS

FRANK D. ADAMS, Ph.D. (Heidelberg), D.Sc., LL.D., F.R.S.
Emeritus Vice-Principal, Emeriturs Dean of the Faculty of Graduate Studies and of the Faculty of Applied Science, and Emeritus Professor of Geology and Palæontology. 1173 Mountain St.

E. W. ARCHIBALD, B.A., M.D., C.M., Doctor honoris causa (Paris), Hon. F.R.C.S. (Eng. and Australia), F.R.C.S. (C).
Emeritus Professor of Surgery. 900 Sherbrooke St. W.

HENRY F. ARMSTRONG, M.A.
Emeritus Professor of Drawing and Descriptive Geometry.
2076 Sherbrooke St. W.

HOWARD T. BARNES, D.Sc., M.E.I.C., F.R.S.
Emeritus Professor of Physics. Physics Building.

A. T. BAZIN, D.S.O., M.D., C.M., F.R.C.S. (C.).
Emeritus Professor of Surgery. 1414 Drummond St.

HERBERT S. BIRKETT, C.B., V.D., M.D., LL.D., F.R.S.C. (C.), F.A.C.S.
Emeritus Professor of Oto-Laryngology. 1509 Sherbrooke St. W.

W. GORDON M. BYERS, M.D., C.M., D.Sc.
Emeritus Professor of Ophthalmology. 1458 Mountain St.

WILLIAM CALDWELL, M.A., D.Sc. (Edin.)
Emeritus Professor of Moral Philosophy. 369 Melville Ave.

WALTER WILLIAM CHIPMAN, B.A., M.D. (Edin.), LL.D. (Pittsburgh, Univ. of Wales, Dalhousie, Acadia and McGill), D.C.L. (Bishop's), F.R.C.S. (Edin.).
Emeritus Professor of Obstetrics and Gynæcology.
1221 Mountain St.

H. B. CUSHING, B.A., M.D., C.M.
Emeritus Professor of Paediatrics. 1538 Sherbrooke St. W.

CARRIE M. DERICK, M.A.
Emeritus Professor of Comparative Morphology and Genetics.
Ross Memorial Hospital, Fourth Floor, Room 23.

E. M. EBERTS, M.D., C.M., M.R.C.S. (Eng.), L.R.C.P. (Lond.).
Emeritus Professor of Surgery. 1414 Drummond St.

NEVIL NORTON EVANS, M.A.Sc., LL.D.
Emeritus Professor of Chemistry. 352 Kitchener Ave., Westmount.

A. S. Eve, C.B.E., M.A. (Cantab.), D.Sc., LL.D. (Queen's and McGill), F.R.S.C., F.R.S.
Emeritus Dean of the Faculty of Graduate Studies and Research and Emeritus Professor of Physics.
Overponds Cottage, Shackleford, Godalming, Surrey, England.

Aimé Geoffrion, K.C., B.C.L., D.C.L. (Bishop's).
Emeritus Professor of Civil Law. 815 Upper Belmont Ave.

The Honourable Chief Justice R. A. E. Greenshields, B.A., B.C.L., LL.D., D.C.L. (Bishop's), LL.D. (U. of M.).
Emeritus Dean of the Faculty of Law and Emeritus Professor of Criminal Law. 3465 Simpson St.

W. F. Hamilton, M.D., C.M., F.R.C.P. (C.).
Emeritus Professor of Medicine. 1225 Mountain St.

F. C. Harrison, D.Sc., F.R.S.C.
Emeritus Dean of the Faculty of Graduate Studies and Research and Emeritus Professor of Bacteriology.
c/o Bank of Montreal, Waterloo Place, London, England.

Stephen Leacock, B.A. (Toronto), Ph.D. (Chicago), Litt.D. (Brown, Dartmouth and Toronto), LL.D. (Queen's and McGill), D.C.L. (Bishop's).
Emeritus Professor of Political Economy. McGill University.

Francis E. Lloyd, M.A. (Princeton), Hon. D.Sc. (Wales), Hon. D.Sc. (Masaryk University), F.R.S.C., F.L.S.
Emeritus Professor of Botany. P.O. Box 842, Carmel, California.

C. F. Martin, B.A., M.D., C.M., LL.D. (Queen's, Harvard and McGill), D.C.L. (Bishop's), M.A.C.P., F.R.C.P. (C).
Emeritus Dean of the Faculty of Medicine and Emeritus Professor of Medicine. 3504 Mountain St.

Gordon Walters MacDougall, K.C., B.A., B.C.L.
Emeritus Professor of Private International Law. 3534 Ontario Ave.

Hon. Mr. Justice Pierre-Basile Mignault, LL.D. (Laval, McGill and Montreal), Docteur (Hon.) Univ. de Paris.
Emeritus Professor of Legal Ethics. Gleneagles Apartments.

Horst Oertel, M.D.
Emeritus Professor of Pathology.
Devonshire Club, St. James, S.W. 1, London, England.

Harry Crane Perrin, Mus. Doc. (Trinity College, Dublin).
Emeritus Dean of the Faculty of Music.
"Hillstead," Streatham Drive, Exeter, England.

J. Bonsall Porter, E.M., Ph.D. (Columbia), D.Sc., Hon. (Univ. Cape of Good Hope), M. Inst. C.E.
Emeritus Professor of Mining Engineering. 3600 McTavish St.

John Ferguson Snell, B.A. (Toronto), Ph.D. (Cornell), F.C.I.C., F.C.S.
Emeritus Professor of Chemistry. Macdonald College.

Alfred Stansfield, D.Sc. (London), A.R.S.M., F.R.S.C.
Emeritus Professor of Metallurgy. 3182 Westmount Boulevard.

Ramsay Traquair, M.A., F.R.I.B.A.
Emeritus Professor of Architecture. Guysborough, N.S.

Arnold Wainwright, K.C., B.A., B.C.L.
Emeritus Professor of the Law of Evidence. 1614 Seaforth Ave.

Hermann Walter, M.A. (Edin.), Ph.D. (Munich).
Emeritus Professor of German. Hudson Heights, Que.

Arthur Willey, Hon. M.A. (Cantab.), D.Sc. (Lond.), F.R.S.C., F.R.S.
Emeritus Professor of Zoology. Mille Isles, Que.

OFFICERS OF INSTRUCTION

(alphabetically arranged)

F. D. Ackman, M.D., C.M.
Assistant Demonstrator in Surgery. 1374 Sherbrooke St. W.

E. R. Adair, B.A. (Lond.), M.A. (Cantab.), F.R. Hist. S.
Associate Professor of History. Arts Building.

L. J. Adams, M.D., C.M., F.R.C.P. (C.).
Demonstrator in Medicine. 1374 Sherbrooke St. W.

B. Alexander, B.Sc., M.D., C.M.
Assistant Demonstrator in Opthalmology. Medical Building.

C. K. Anderson, C.A.
Demonstrator in Accountancy. Arts Building.

E. H. Anderson, M.D., C.M.
Assistant Demonstrator in Pathology. Pathological Institute.

Louis J. Arcand, M.Eng.
Lecturer in Surveying and Geodesy. Engineering Building.

John C. Armour, M.Sc., M.D., C.M.
Assistant Professor in Surgery. Royal Victoria Hospital.

Robert W. Ashley, B.Sc. (Man.).
Demonstrator in Chemistry. Chemistry Building.

Henry R. C. Avison, B.A.
Lecturer in English. Macdonald College.

Boris P. Babkin, M.D. (St. Petersburg), D.Sc. (Lond.), F.R.S.C.
Research Professor of Physiology and Chairman of the Department.
Biological Building.

Harry L. Bacal, B.A., M.D., C.M.
Assistant Demonstrator in Paediatrics. 1414 Drummond St.

H. Baillargeon.
Instructor on the Flute. Conservatorium of Music.

David H. Ballon, B.A., M.D., C.M., F.R.C.S. (C.), F.A.C.S.
Assistant Professor of Oto-Laryngology and Chairman of the Department.
1471 Crescent St.

W. H. Barnes, M.Sc., Ph.D., F.R.S.C.
Associate Professor of Chemistry. Chemistry Building.

D. Barza, M.D., C.M.
Assistant Demonstrator in Medicine and Clinical Medicine.
Medical Building.

W. A. G. Bauld, D.S.O., B.A. (Dalhousie), M.D., C.M., F.R.C.S. (C.), F.A.C.S., F.R.C.O.G.
Assistant Professor of Obstetrics and Gynæcology. 1538 Sherbrooke St. W.

F. H. A. Baxter, D.D.S.
Professor of Operative Dentistry. 1117 St. Catherine St. W.

H. A. Baxter, M.D., C.M.
Assistant Demonstrator in Surgery. Medical Building.

Stewart G. Baxter, M.D., C.M., M.Sc., Ph.D.
Demonstrator in Surgery. 1538 Sherbrooke St. W.

C. C. Bayley, M.A. (Manchester), Ph.D. (Chicago).
Assistant Professor of History. Arts Building.

E. F. Beach, B.A. (Queen's), Ph.D. (Harvard).
Acting Director of the School of Commerce and Assistant Professor of Commerce. Arts Building.

J. R. Beck, M.A. (Stanford).
Lecturer in German. Arts Building.

John W. Bell, M.Sc.
Professor of Mining Engineering. 3788 Vendome Ave.

Jean Belland.
Instructor in Violoncello. Conservatorium of Music.

B. Benjamin, B.A., M.D., C.M.
Assistant Demonstrator in Paediatrics. Medical Building.

Margaret Bennett, L.R.S.M.
Lecturer in Rudiments of Music. Conservatorium of Music.

R. C. Bennetts, M.D., C.M.
Assistant Demonstrator in Medicine and Clinical Medicine. Medical Building.

N. J. Berrill, B.Sc. (Bristol), Ph.D., D.Sc. (London), F.R.S.C.
Associate Professor of Zoology and Chairman of the Department. Biological Building.

C. C. Birchard, M.D. (Toronto), M.R.C.P. (Lond.), F.R.C.P. (C.).
Assistant Professor of Medicine. 4484 Western Ave.

J. Norman Bird, M.A. (Toronto), M.S.A.
Lecturer in Agronomy. Macdonald College.

Ray H. Bissell, B.Sc.
Lecturer in Industrial Management. 1135 Beaver Hall Hill.

J. Neilson Blacklock, D.D.S.
Special Lecturer in Dental Ethics. Medical Arts Building.

JOHN BLAND, B.Arch., A.R.I.B.A., A.M.T.P.I.
Sessional Lecturer in Architecture and Secretary of the School of Architecture. Engineering Building.

RONALD H. BLIZZARD, B.Sc. (Wash. Coll.).
Graduate Assistant in Chemistry. Chemistry Building.

M. J. BONN, D.Pol.Sci. (Freiburg).
Visiting Professor in Economics and Political Science. Arts Building.

E. T. BOURKE, D.D.S.*
Special Lecturer in Prosthetic Dentistry. 1414 Drummond St.

C. R. BOURNE, M.D., C.M.
Lecturer in Medicine. 2310 Dorchester St. West.

WESLEY BOURNE, M.Sc., M.D., C.M., F.R.C.P. (C.), F.I.C.A., D.A. (R.C.P. and S. Eng.).
Lecturer in Anæsthesia. 32 Holton Ave., Westmount.

JOHN R. BOWER, B.Sc. (Idaho).
Demonstrator in Chemistry. Chemistry Building.

J. O. W. BRABANDER, A.B., M.D., C.M.
Demonstrator in Medicine and Clinical Medicine. Medical Building

VICTOR BRAULT.
Instructor in Singing. Conservatorium of Music.

CARL R. BREWER, Ph.D.
Lecturer in Bacteriology and Immunity. Pathological Institute.

CHARLES P. BREWER, B.A., (B.C.).
Demonstrator in Chemistry. Chemistry Building.

R. W. BRIGGS, Ph.D. (Harvard).
Research Fellow in Zoology. Biological Building.

MARTHA BRITT, B.S. (Columbia).
Lecturer in Textiles and Clothing. Macdonald College.

W. H. BRITTAIN, M.S. in Agr., Ph.D. (Cornell), F.R.S.C.
Vice-Principal of Macdonald College, Dean of the Faculty of Agriculture, Professor of Entomology and Chairman of the Department. Macdonald College.

E. C. BROOKS, L.R.C.P. & S. (Edin.).
Lecturer in Radiology. Royal Victoria Hospital.

G. R. BROW, M.D., C.M., F.R.C.P. (C.).
Lecturer in Medicine. Royal Victoria Hospital.

*On War Service.

E. Brown, M.Sc. (Victoria), M.Eng. (Liverpool).
Dean of the Faculty of Engineering and Professor of Applied Mechanics and Hydraulics. 4035 Harvard Ave.

Edwin Brown, M.D. (Queen's).
Teaching Fellow in Anatomy. Medical Building.

Norman Brown, M.D., C.M.
Lecturer in Physio-Therapy. 1495 Crescent St.

O. N. Brown, B.Sc.
Associate Professor of Mining Engineering.
Chemistry and Mining Building.

J. S. L. Browne, B.Sc. (Med.), Ph.D., M.D., C.M.
Assistant Professor of Medicine and Lecturer in Pathological Chemistry. Royal Victoria Hospital.

Novah E. Brownrigg, B.A. (Queen's).
Lecturer in French. Macdonald College.

A. S. Bruneau, K.C., B.A., B.C.L.
Professor of Commercial Law. 275 St. James St.

H. D. Brunt, B.A. (Dal.), Ph.D. (Jena).
Associate Professor and Chairman of the Department of English.
Macdonald College.

W. W. Bryan, M.D. (Emory).
Assistant Demonstrator in Radiology. Medical Building.

Genevieve Bugnion.
Instructor in Dalcroze Eurythmics. Conservatorium of Music.

J. F. Burgess, M.B., F.R.C.P. (C.).
Clinical Professor of Dermatology. Drummond Medical Bldg.

Hugh Burke, M.Sc., Ph.D., M.D., C.M.
Demonstrator in Medicine and Clinical Medicine.
Medical Building.

Philip Burnett, D.S.O., M.D., C.M., M.R.C.S. (Eng.), L.R.C.P. (Lond.).
Clinical Professor of Dermatology. The Linton, Sherbrooke St. West.

E. Godfrey Burr, B.Sc.
Assistant Professor of Electrical Engineering.
699 Aberdeen Ave., Westmount.

W. C. Bushell, D.D.S.
Lecturer in Crown and Bridge Work. Medical Arts Building.

Thomas Wright Moir Cameron, T.D., B.Sc., M.A., D.Sc. (Edin.), Ph.D., M.R.C.V.S. (London), F.R.S.C.
Professor of Parasitology and Director of the Institute of Parasitology, and Special Lecturer in the Department of Zoology.
Macdonald College.

A. D. Campbell, M.D., C.M., F.R.C.S. (C.), F.A.C.S., M.C.O.G. (Eng.).
Associate Professor of Obstetrics and Gynæcology.
Drummond Medical Building.

D. G. Campbell, B.A., M.D., C.M., F.R.C.P. (C.).
Lecturer in Therapeutics and in Medicine. 1511 Mackay St.

N. B. Campbell, B.Sc. (Queen's).
Demonstrator in Chemistry. Chemistry Building.

W. B. Campbell, Ph.D.
Lecturer in Chemistry. Chemistry Building.

Clive Harcourt Carruthers, B.A. (Toronto and Oxon.), M.A. (Toronto) Ph.D. (Chicago).
Professor of Classical Philology. 148 Wolseley Ave., Montreal West.

Frank P. Chambers, M.A. (Cantab.).
Assistant Professor of Architecture. Engineering Building.

Claude Champagne.
Instructor in Composition and Orchestration.
Conservatorium of Music.

Antony D. Chapman, M.A.
Sessional Lecturer in English. Arts Building.

A. E. Childe, M.D. (Manitoba).*
Lecturer in Neurological Roentgenology.
Montreal Neurological Institute.

Warwick Fielding Chipman, K.C., B.A., B.C.L.
Professor of Civil Law. 360 St. James St.

H. Davis Chipps, M.D. (Louisville).
Demonstrator in Pathology. Pathological Institute.

C. V. Christie, B.Sc., M.A. (Dalhousie).
Macdonald Professor of Electrical Engineering and Chairman of the Department. 87 Holton Ave., Westmount.

Walter Clapperton, Hon. A.R.C.M.
Instructor in Singing. 4016 Vendome Ave.

T. H. Clark, Ph.D. (Harvard), F.R.S.C.
Logan Professor of Palæontology. Peter Redpath Museum.

Douglas Clarke, M.A., Mus. B. (Cantab.), F.R.C.M., F.R.C.O.
Dean of the Faculty of Music and Director of the Conservatorium of Music.
Conservatorium of Music.

Brooke Claxton, K.C., B.C.L.
Associate Professor of Law. 231 St. James St., W.

---

*On War Service.

E. Thornburn Cleveland, D.D.S.
Clinical Demonstrator in Operative Dentistry.
1414 Drummond Street.

E. H. Cliff, B.C.L.
Lecturer in Commercial Law. 215 St. James St. W.

Errol B. Clift, D.D.S.
Clinical Demonstrator in Dentistry. 1240 Union Ave.

H. Bruce Collier, M.A., Ph.D. (Toronto).
Lecturer in Parasitology. Macdonald College.

Frederick Thomas Collins, B.A. (Toronto), B.C.L.
Sessional Lecturer in Civil Law. 215 St. James St. W.

James Bertram Collip, M.A., Ph.D. (Toronto), M.D., D.Sc. (Alberta), Hon. D.Sc. (Harvard), LL.D. (Manitoba), F.R.S.C., F.R.S., F.R.C.P. (Lond.).
Gilman Cheney Professor of Biochemistry and Chairman of the Department. 622 Syndenham Ave., Westmount.

John S. Common, D.D.S.
Demonstrator in Dental Office Management.
1240 Phillips Square.

W. V. Cone, B.Sc., M.D., F.R.C.S. (C.).*
Associate Professor of Neurosurgery and Lecturer in Neuropathology.
Montreal Neurological Institute.

Raymond L. Conklin, D.V.M. (Cornell), M.Sc., M.D., C.M.
Professor and Chairman of the Department of Animal Pathology and Veterinarian. Macdonald College.

Edgar M. Cooper, M.D., C.M.
Demonstrator in Surgery. 1414 Drummond St.

Irvin Cooper, Mus.B., A.R.M.C.M.
Lecturer in Harmony and Counterpoint and Music in Education.
4530 Royal Ave., N.D.G.

John I. Cooper, M.A. (Western Ontario), Ph.D.
Lecturer in History. Arts Building.

James A. Coote, B.Sc.
Assistant Professor of Mechanical Engineering.
7 Cedar Ave., Pointe Claire, Que.

Gordon A. Copping, M.D., C.M.*
Demonstrator in Medicine. Montreal General Hospital.

---

*On War Service.

PERCY ELLWOOD CORBETT, M.A. (McGill and Oxon.), LL.D. (Melbourne).
Chairman of the Social Studies and Commerce Group of the Faculty of Arts and Science and Chairman of the Law Committee in the School of Commerce, and Gale Professor of Roman Law.
R.M.D. 4, Magog, Que.

FRANK E. CORMIA, B.Sc., M.D. (Vermont).
Demonstrator in Dermatology. 2068 Sherbrooke St. W.

JOHN G. COULSON, M.A., (Queen's).
Associate Professor and Chairman of the Department of Plant Pathology.
Macdonald College.

E. M. COUNSELL, B.A. (Oxon.).*
Lecturer in Classics. Arts Building.

CARLETON CRAIG, B.A., M.Eng.*
Lecturer in Civil Engineering and Mathematics.
Engineering Building.

EARLE W. CRAMPTON, M.S. (Iowa), Ph.D. (Cornell).
Associate Professor of Animal Nutrition. Macdonald College.

E. M. CRAWFORD, M.D., C.M.
Assistant Demonstrator in Radiology. Medical Building.

ROBERT H. J. CREIGHTON, A.B. (Swarthmore).
Demonstrator in Chemistry. Chemistry Building.

IVAN H. CROWELL, B.Sc. (New Brunswick), A.M. (Miami), A.M., Ph.D. (Harvard).
Lecturer in Plant Pathology. Macdonald College.

JOHN CULLITON, B.A., (Sask.), M.A.
Assistant Professor of Economics. Arts Building.

H. W. CUNNINGHAM.
Instructor in Dairying. Macdonald College.

ALEX. B. CURRIE, B.A. (Queen's), M.A. (Alberta), Ph.D. (London).
Assistant Professor of Education. Arts Building.

CECIL CURRIE, M.A.
Lecturer in Philosophy. Arts Building.

RICHARD E. DAGG, D.D.S.
Clinical Demonstrator in Prosthetic Dentistry. 1414 Drummond St.

ALBERT J. DALTON, B.S. (Wesleyan), A.M., Ph.D. (Harvard).
Lecturer in Histology and Embryology. Medical Building.

T. E. DANCEY, B.A., M.D., C.M.
Demonstrator in Psychiatry. Verdun Protestant Hospital.

---

*On War Service.

JOHN DANDO, B.A.
Assistant in English. Arts Building.

JEAN LOUIS DARLBENET, Agrégé d'Anglais de l'Université de France.
Associate Professor of French. Arts Building.

CARL ADDINGTON DAWSON, B.A., Ph.D. (Chicago).
Professor of Sociology and Chairman of the Department.
4663 Victoria Ave.

HOWARD DAWSON, B.A., M.D.
Lecturer in Surgery. 1538 Sherbrooke St. West.

JOHN PERCIVAL DAY, B.A., B.Sc. (Lond.), D. Phil. (St. Andrews).
R. B. Angus Professor of Economics. Arts Building.

L. DECAIR.
Instructor in Tympani and Percussion. Conservatorium of Music.

WALTER A. DELONG, B.S.A. (Toronto), M.Sc. (McGill), Ph.D. (Minnesota).
Assistant Professor of Chemistry in the Faculty of Agriculture.
Macdonald College.

L. P. DEMERS, M.D. (U. of M.).
Demonstrator in Bacteriology. Pathological Institute.

O. F. DENSTEDT, B.Sc. (Manitoba), Ph.D.
Lecturer in Biochemistry. Biological Building.

LOUIS D'HAUTESERVE, B. és L. and Ph. (Paris), M.A. (McGill), Ing. E.F.M. and Licencié en Droit, (Paris).
Assistant Professor of French. Arts Building.

RUTH DINGLE, A.O.C.A.
Assistant in English. Arts Building.

G. J. DODD, M.Sc.
Associate Professor of Civil Engineering. Engineering Building.

J. S. DOHAN, D.D.S. (Bishop's), F.A.C.D.
Professor of Prosthetic Dentistry. 1411 Stanley St.

H. S. DOLAN, B.A., M.D., C.M.
Assistant Demonstrator in Surgery. Medical Building.

M. L. DONIGAN, D.D.S.
Demonstrator in Orthodontia. 1414 Drummond St.

FRANK S. DORRANCE, M.D., C.M.
Demonstrator in Anatomy. Suite 823, Medical Arts Building.

RUTH P. DOW, B.A., M.D., C.M., D.P.H. (Toronto).
Demonstrator in Bacteriology and Immunity and Instructor in Bacteriology in the School for Graduate Nurses.
Alexandra Hospital.

H. V. Driver, D.D.S.*
Clinical Demonstrator in Dentistry. 1240 Philips Square.

G. Lyman Duff, M.A., M.D., Ph.D. (Toronto).
Strathcona Professor of Pathology, Chairman of the Department, and Director of the Pathological Institute. Pathological Institute.

J. W. Duncan, M.D., C.M., F.R.C.S. (C.). F.A.C.S., F.R.C.O.G.
Clinical Professor of Obstetrics and Gynaecology.
Medical Arts Building.

E. Melville DuPorte, B.S.A., Ph.D.
Assistant Professor of Entomology at Macdonald College, and Special Lecturer in Zoology. Macdonald College.

Raoul Duquette
Instructor in Violoncello. Conservatorium of Music.

Dumaresq, Frances, B.A., B.L.S.
Sessional Lecturer in Library School. Redpath Library.

S. Dworkin, D.D.S., M.Sc., M.D., C.M.
Lecturer in Physiology. Biological Building.

W. W. Eakin, M.D., C.M., F.R.C.P. (C.).
Demonstrator in Medicine. 1538 Sherbrooke St. W.

F. A. Edward, B.A., D.D.S.*
Clinical Demonstrator in Dentistry. 910 Medical Arts Building.

Arthur H. Egerton, Mus.Doc. (Toronto), F.R.C.O., Hon. A.R.C.M.
Lecturer in Harmony, Counterpoint, and the Appreciation of Music.
Conservatorium of Music.

H. M. Elder, M.D., C.M.*
Lecturer in Surgery. Medical Arts Building.

Evelyn K. Elderkin, B.S. (Columbia).
Lecturer in Art and Interior Decoration. Macdonald College.

A. R. Elvidge, M.Sc., M.D., C.M., Ph.D., F.R.C.S. (C.).
Assistant Professor in Neurosurgery.
Montreal Neurological Institute.

Esther England, B.A.
Assistant in English. Arts Building.

L. P. Ereaux, B.Sc., M.D., C.M.
Lecturer in Dermatology. 1390 Sherbrooke St. West.

Theodore C. Erickson, M.A., M.D. (Minnesota), M.Sc., Ph.D.
Lecturer in Neurosurgery.
Montreal Neurological Institute.

---

*On War Service.

GERALD FAUTEUX, K.C., B.A., LL.L. (Montreal).
Lecturer in Criminal Law. 132 St. James St. W.

NEIL FEENEY, B.A. (Laval), M.D., C.M.
Demonstrator in Medicine. 1414 Drummond Street.

H. L. FEATHERSTONHAUGH, B.Arch., F.R.I.B.A.
Lecturer in Design in the School of Architecture.
660 St. Catherine St. W.

HAROLD G. FILES, M.A., Ph.D. (Harvard).
Greenshields Professor of English Literature. Arts Building.

HAY FINLAY, Dip. M.S.P.E.
Assistant Physical Director and Athletics Manager (during the absence of Lieut.-Col. D. S. Forbes on war service).
3484 University St.

FRANCES M. FISHER, B.Sc., M.D., C.M.
University Medical Officer for Women and Demonstrator in Anatomy.
4440 Oxford Avenue.

GUY FISK, B.A., M.D., C.M.
Demonstrator in Physio-Therapy. Medical Building.

R. R. FITZGERALD, B.Sc., M.D., C.M., F.R.C.S. (Eng. and C.).
Lecturer in Surgery. 1414 Drummond Street.

J. C. FLANAGAN, D.D.S.
Special Lecturer in Prosthetic Dentistry.
1224 St. Catherine St. W.

G. A. FLEET, M.Sc., M.D., C.M., M.R.C.S. (Eng.), F.R.C.S. (Lond.).
Lecturer in Surgery. 1500 Crescent St.

GRANT FLEMING, M.C., M.D. (Toronto), D.P.H. (Toronto). F.R.C.P. (C).
Strathcona Professor of Public Health and Preventive Medicine, and Chairman of the Department. Medical Building.

WILLIAM R. FOOTE, B.A., (B.C.), M.D., C.M.
Teaching Fellow in Obstetrics and Gynæcology.
Royal Victoria Hospital.

D. STUART FORBES, M.C., B.Sc., B.Arch.*
Athletics Manager. McGill Union.

EUGENE FORSEY, M.A. (McGill and Oxon.).
Lecturer in Economics and Political Science. Arts Building.

D. S. FORSTER, M.A., M.D., C.M.
Senior Demonstrator in Anatomy. 4405 Wellington St.

H. L. FOSTER, M.D. (Toronto).
Assistant Demonstrator in Pathology. Pathological Institute.

*On War Service.

J. S. Foster, Ph.D. (Yale), D.Sc. (Acadia), F.R.S.C., F.R.S.
Macdonald Professor of Physics. 615 Lansdowne Ave., Westmount.

A. F. Fowler, M.D., C.M.
Demonstrator in Medicine. 3468 Hingston Ave., N.D.G.

E. Fowler.
Instructor on the Trombone. Conservatorium of Music.

W. W. Francis, A.B., M.D. (Johns Hopkins), M.D., C.M. (ad eun.).
Osler Librarian. Medical Building.

Gerald Franklin, D.D.S.*
Lecturer in Orthodontia. 1414 Drummond St.

A. M. Fraser, B.Sc. (Dal.), M.A. (Haverford), M.D., C.M.
Lecturer in Pharmacology. Biological Building.

J. R. Fraser, M.D., F.R.C.S. (C.), F.A.C.S., F.C.O.G.
Professor of Obstetrics and Gynaecology and Chairman of the Department.
1390 Sherbrooke St. W.

A. O. Freedman, M.D., C.M.
Assistant Demonstrator in Otolaryngology. Medical Building.

R. DeL. French, B.Sc., C.E. (Wor.Poly.Inst.), Mem. Am. Soc. C.E.
Professor of Highway and Municipal Engineering and Secretary of the Faculty of Engineering. 3653 Oxenden Avenue.

D. K. Froman, M.Sc. (Alberta), Ph.D. (Chicago).
Assistant Professor of Physics. Physics Building.

C. E. Fryer, M.A., Ph.D. (Harvard), F.R. Hist. S.
Kingsford Professor of History and Chairman of the Department.
Arts Building.

Richard Fuller.*
Instructor in Singing. Conservatorium of Music.

C. W. Fullerton, M.D., C.M.
Demonstrator in Medicine. 1414 Drummond Street.

J. S. Fulton, Ph.D. (Cornell).
Assistant Professor of Philosophy. Arts Building.

Mrs. Lucie Touren Furness, Licenciée és Lettres de l'Université de France.
Assistant Professor of French and Assistant Director of the French Summer School. 3558 Grey Ave.

Real Gagnier.
Instructor on the Oboe. Conservatorium of Music.

A. K. Geddes, M.D., C.M.
Lecturer in Pædiatrics. 1390 Sherbrooke St. W.

*On War Service.

A. Robert George, B.A. (Bristol), B.D. (London).
Sessional Lecturer in Education. 3506 University St.

J. W. Gerrie, B.A., D.D.S. (Alberta), M.D., C.M., D.L.O. (Eng.).*
Lecturer in Dental Surgery. 1414 Drummond St.

R. D. Gibbs, M.Sc., Ph.D. (Lond.), F.R.S.C.
Assistant Professor of Botany. Biological Building.

N. Giblin, M.C., B.A. (Tas.), M.B., Ch.B. (Edin.).
Assistant Professor of Physiology. Biological Building.

Madame J. R. Gilbert.
Instructor in Violin. Conservatorium of Music.

J. E. Gill, Ph.D. (Princeton), F.R.S.C.
Associate Professor of Geology.
Chemistry and Mining Building.

A. H. S. Gillson, M.A. (Cantab.).*
Professor of Mathematics. 317 Roslyn Avenue.

A. W. Gilmour, B.Com., C.A.
Lecturer in Accountancy. 3830 Hampton Ave.

Alton Goldbloom, B.A., M.D., C.M., F.R.C.P. (C).
Assistant Professor of Pædiatrics. 1543 Crescent St.

Donald C. Gordon, B.Sc. (Mt. Allison), D.D.S.
Clinical Demonstrator in Dentistry. Medical Building.

Keith Gordon, B.A., M.D., C.M., F.R.C.P. (C.).*
Lecturer in Medicine. 1374 Sherbrooke St. West.

W. L. Graff, Ph.D. (Lov.).
Associate Professor of German and Chairman of the Department.
Arts Building.

Richard P. D. Graham, B.A. (Oxon.), D.Sc., F.R.S.C.
Professor of Mineralogy. Chemistry and Mining Building.

Rhoda Grant, M.A., Ph.D.
Demonstrator in Physiology. Biological Building

Ronald Grant, B.Sc. (London), Ph.D. (Edin.), F.R.S.E.
Sessional Lecturer in Zoology. Biological Building.

P. H. H. Gray, M.A. (Oxon.), D.Sc. (Lond.).
Associate Professor and Chairman of the Department of Bacteriology.
Macdonald College.

Douglas Gurd, M.D., C.M.
Demonstrator in Obstetrics and Gynæcology. 1482 Mackay St.

*On War Service.

FRASER B. GURD, B.A., M.D., C.M., F.R.C.S. (C.), F.A.C.S.
Associate Professor of Surgery. 1538 Sherbrooke St. W.

G. B. A. HALL, M.Com., C.A.
Lecturer in Elements of Accounting. Arts Building.

GUY HAMEL, B.Sc. (Loyola), M.D. (Laval).
Demonstrator in Medicine and Clinical Medicine.
Medical Building.

E. HAMILTON, B.Com., C.A.
Demonstrator in Accountancy.
5119 Mountain Sights.

LIONEL H. HAMILTON, M.S. (Wisconsin).
Assistant Professor of Animal Husbandry. Macdonald College.

TALITHA A. HANKE, B.S., M.A. (Columbia).
Lecturer in Household Administration. Macdonald College.

FRANK K. HANSON, Mus.B.
Lecturer in Keyboard Harmony, and Teachers' Methods and Materials; Instructor in Pianoforte; Lecturer in Music, Macdonald College.
Conservatorium of Music.

E. S. HARDING, M.D., C.M.
Demonstrator in Medicine and Clinical Medicine.
Medical Building.

R. H. M. HARDISTY, D.S.O., M.C., B.A., M.D., C.M.
Lecturer in Medicine. Medical Arts Building.

F. HARDMAN.
Instructor on the Flute. Conservatorium of Music.

MARION W. HARLOW, B.Sc. (Home Ec.) (Acadia).
Instructor in Nutrition in the School for Graduate Nurses.
1911 Tupper Street.

A. V. HARRIS, B.A., B.Com., C.A.
Demonstrator in Accountancy. Arts Building.

MOLLY HARROWER, Ph.D. (Smith), Acad. Dip. (London).
Lecturer in Clinical Psychology in the Department of Neurology and Neurosurgery. Montreal Neurological Institute.

W. H. HATCHER, M.Sc., Ph.D., F.R.S.C.
Professor of Chemistry, Chairman of the Physical Sciences Group of the Faculty of Arts and Science. Chemistry and Mining Building.

HELEN L. HAULTAIN.
Sessional Lecturer in Government Documents. Library School.

W. LINCOLN HAWKINS, Ch.E. (Rensselaer Poly. Inst.), M.S. (Howard), Ph.D.
Sessional Lecturer in Chemistry. Chemistry Building.

A. B. Hawthorne, B.A., M.D., C.M.
Demonstrator in Surgery. Medical Arts Building.

Alden W. Hay, B.Sc. (New Brunswick).
Demonstrator in Chemistry. Chemistry Building.

Myrtle A. Hayward, B.Sc., M.A. (Columbia).
Lecturer in Educatioanl Methods and Foods and Cookery.
Macdonald College.

L. G. Heimpel, M.S., (Cornell).
Associate Professor and Chairman of the Department of Agricultual Engineering. Macdonald College.

J. C. Hemmeon, M.A., Ph.D. (Harvard).
William Dow Professor of Political Economy and Chairman of the Department of Economics and Political Science. Arts Building.

A. T. Henderson, M.D., C.M.
Lecturer in Medicine. 900 Sherbrooke St. West.

Charles K. P. Henry, M.D., C.M., F.R.C.S. (C.), F.A.C.S.
Associate Professor of Surgery. 605 Medical Arts Building.

J. S. Henry, M.D., C.M., M.R.C.O.G.
Demonstrator in Obstetrics and Gynæcology.
1414 Drummond St.

Robina E. Henry, B.A. (Dublin).
Sessional Lecturer in Spanish. Arts Building.

W. B. Hewson, B.A. (Mt. Allison).
Demonstrator in Chemistry. Chemistry Building.

Harold Hibbert, D.Sc. (Victoria University, Manchester), Ph.D. (Leipzig), LL.D. (U.B.C.), F.R.S.C.
E. B. Eddy Professor of Industrial and Cellulose Chemistry.
Pulp and Paper Research Institute.

G. E. M. Hilton, M.D., C.M.
Assistant Demonstrator in Oto-Laryngology. Medical Building.

R. J. Hilton, B.Sc. (Agr.), Ph.D. (Lond.).
Lecturer in Horticulture and Warden of Men's Residence, Macdonald College. Macdonald College.

G. E. Hodge, M.D., C.M., F.A.C.S., F.R.C.S. (C.).
Assistant Professor of Oto-Laryngology. 1414 Drummond St.

S. R. N. Hodgins, B.S.A., M.A.*
Assistant Professor of English and Journalism. Macdonald College.

J. H. Holden, Sc.M. (M.I.T.).
Sessional Lecturer in Chemical Engineering. Chemistry Building.

*On War Service.

RUFUS CLEMENT HOLDEN, Jr., B.A., B.C.L.
Sessional Lecturer in Civil Law. 215 St. James St. W.

G. ALLISON HOLLAND, B.Com., M.D., C.M., F.R.C.S. (C.).
Demonstrator in Anatomy and Assistant Demonstrator in Surgery.
4342 Sherbrooke St. W.

F. S. HOWES, Ph.D. (London).
Lecturer in Electrical Engineering. Engineering Building.

MABEL F. HOWIE, B.Sc., M.D., C.M.
Demonstrator in Bacteriology. Pathological Institute.

J. G. HOWLETT, M.D., C.M.
Assistant Demonstrator in Medicine and Clinical Medicine.
Medical Building.

JOHN HUGHES, M.A. (Wales).
Macdonald Professor of Education and Chairman of the Department.
Arts Building.

JOHN P. HUMPHREY, B.Com., B.A., B.C.L.
Associate Professor of Law and Secretary to the Faculty of Law.
427 Elm Ave., Westmount.

S. HUMPHREYS, A. B., M.D. (Yale).*
Research Fellow in Neurology and Neurosurgery.
Montreal Neurological Institute.

WALTER HUNGERFORD.
Instructor in Pianoforte. Conservatorium of Music.

C. LEONARD HUSKINS, B.S.A., M.Sc. (Alberta), Ph.D., D.Sc. (London), F.R.S.C.
Professor of Genetics and Chairman of the Department.
3531 Lorne Ave.

KEITH HUTCHISON, M.D., C.M.
Demonstrator in Oto-Laryngology. 1509 Sherbrooke St. West.

E. S. INGRAHAM, M.D. (Western Reserve).
Demonstrator in Pathology. Pathological Institute.

E. C. IRVINE, M.A., B.Pæd. (Toronto).
Lecturer in Mathematics. Macdonald College.

F. CYRIL JAMES, B.Com. (London), M.A., Ph.D. (Penn.).
Principal and Vice-Chancellor of the University and Professor of Political Economy. Arts Building.

R. E. JAMIESON, M.Sc.
William Scott Professor of Civil Engineering and Chairman of the Department of Civil Engineering and Applied Mechanics.
234 Metcalfe Ave., Westmount.

*On War Service.

HERBERT JASPER, Ph.D. (Iowa), D.deSc. (Paris).
Lecturer in Neurological Electrography.
Montreal Neurological Institute.

KATHLEEN R. JENKINS, B.A.
Sessional Lecturer in Public Library Administration.
Westmount Public Library.

EDITH JOHNSON.
Instructor in Pianoforte. Conservatorium of Music.

J. G. W. JOHNSON, M.A., M.D., C.M., F.R.C.S. (Edin.), F.R.C.S. (C.), F.A.C.S.
Lecturer in Surgery. 1005 Sherbrooke St. West.

J. WILFRED JOHNSTON, D.D.S.
Demonstrator in Dental Therapeutics and Dental Pharmacology and Materia Medica. 1414 Drummond St.

KENNETH B. JOHNSTON, M.D., C.M.
Demonstrator in Ophthalmology. 1509 Sherbrooke St. W.

VERNAL JOSEPHSON, M.Sc., (State Coll. Agr. Utah).
Demonstrator in Physics. Physics Building.

C. R. JOYCE, M.D., C.M.
Demonstrator in Medicine. 5242 Park Ave.

WILLIAM KALBFLEISCH, B.E., B.E.A. (Sask.), M.S.A. (Cornell).
Lecturer in Agricultural Engineering. Macdonald College.

JOSEPH KAUFMANN, M.D., C.M., F.R.C.P. (C.).
Assistant Professor of Medicine. 1476 Crescent St.

P. J. KEARNS, M.Sc., M.D., C.M., M.R.C.O.G., F.A.C.S.
Demonstrator in Obstetrics and Gynaecology and Clara Law Fellow.
Pathological Institute.

CHESTER E. KELLOGG, B.A. (Bowdoin), M.A., Ph.D. (Harvard).
Associate Professor of Psychology. Arts Building.

ALBERT J. KELLY, B.Sc.
Associate Professor of Surveying and Chairman of the Department of Surveying and Geodesy. The Observatory.

C. D. KELLY, M.S.A. (U.B.C.), Ph.D. (Cornell).
Lecturer in Bacteriology and Immunity.
30 Wicksteed Road, Town of Mount Royal.

J. E. KENNEDY, B.A. (Queen's).
Demonstrator in Physics. Physics Building.

W. R. KENNEDY, B.Sc., M.D., C.M.
Demonstrator in Medicine. 3456 Harvard Ave.

GEORGE A. KENT, B.Sc. (Alta.).
Demonstrator in Chemistry. Chemistry Building.

J. KERSHMAN, M.Sc., M.D., C.M.
Demonstrator in Neurology. Montreal Neurological Institute.

DAVID A. KEYS, M.A. (Toronto) Ph.D. (Harvard and Cantab.), F.R.S.C.
Professor of Physics. 201 Brock Ave. North, Montreal West.

J. KILGOUR, B.Sc., M.D. (Manitoba).
Assistant Demonstrator in Medicine and Clinical Medicine.
Medical Building.

DOROTHY KING, B.Sc., Dip. New York School of Social Work.
Instructor in Social Case Work in the School for Graduate Nurses.
Montreal School of Social Work.

S. A. KOMAROV, M.D. (Riga), M.Sc., Ph.D.
Lecturer in Physiology. Biological Building.

RICHARD KRONER, Ph.D. (Freiburg),
Frothingham Professor of Logic and Metaphysics. (*On leave of absence 1940-41*). Yale University, New Haven, Conn.

SINCLAIR LAIRD, M.A., B.Phil., Officier de l'Instruction Publique.
Director of the School for Teachers and Professor of Education.
Macdonald College.

ARTHUR S. LAMB, B.P.E. (Springfield), M.D., C.M.
Director of the Department of Physical Education and of the School of Physical Education.
Sir Arthur Currie Memorial Gymnasium-Armoury.

MME. P. LARIVIERE, Agrégée des Lettres de l'Université de France.
Sessional Lecturer in French. 2650 Sherbrooke St. East.

J. E. LATTIMER, B.S.A., M.Sc., Ph.D. (Wisconsin), F.R.E.S.
Professor and Chairman of the Department of Agricultural Economics.
Macdonald College.

EARL M. LAURIN, D.D.S.
Special Lecturer in Dental History. 1414 Drummond St.

FORREST LAVIOLETTE, B.A. (Reed College), Ph.D. (Chicago).
Assistant Professor of Sociology. Arts Building.

W. G. LEAHY, B.Sc., D.D.S.
Lecturer in Operative Dentistry. Montreal General Hospital.

DIGBY LEIGH, B.A., M.D., C.M.
Lecturer in Anaesthesia. Medical Building.

CHARLES STUART LE MESURIER, K.C., B.A., B.C.L.
Dean of the Faculty of Law and Professor of Civil Law.
419 Roslyn Ave., Westmount.

D. SCLATER LEWIS, M.Sc., M.D., C.M., F.R.C.P. (C.).
Associate Professor of Therapeutics and Assistant Professor of Medicine.
1390 Sherbrooke St. West.

MARION LINDEBURGH, R.N., M.A. (Columbia).
Director, School for Graduate Nurses, and Instructor in Teaching and Supervision in Schools of Nursing.
School for Graduate Nurses.

L. M. LINDSAY, M.D., C.M.
Assistant Professor in Pædiatrics. Medical Arts Building.

H. R. LITTLE, B.Sc., B.Arch.,
Lecturer in Building Construction, School of Architecture.
660 St. Catherine St. W.

GEORGE D. LITTLE, M.D., C.M.
Assistant Demonstrator in Surgery. 1538 Sherbrooke St. W.

A. R. B. LOCKHART, M.A. (Columbia).
Lecturer in Elementary Education. Macdonald College.

EMILE A. LODS, M.S.A.
Assistant Professor of Agronomy. Macdonald College.

GERHARD R. LOMER, M.A., Ph.D. (Colombia), F.L.A.
University Librarian, Director of the Library School and Professor of Library Administration. 3670 Lorne Cerscent.

P. LORRAIN, B.Sc.
Demonstrator in Physics. Physics Building.

FREDERICK P. LOSSING, B.A. (West. Ont.).
Demonstrator in Chemistry. Chemistry Building.

L. LOWENSTEIN, B.A., M.D.
Assistant Demonstrator in Medicine and Clinical Medicine.
Medical Building.

I. K. LOWRY, B.A., D.D.S.
Lecturer in Prosthetic Dentistry. 910 Medical Arts Building.

JOSEPHUS C. LUKE, E.A., M.D., C.M., F.R.C.S. (Eng.).
Demonstrator in Surgery and Anatomy. 814 Medical Arts Building.

D. LUTERMAN, B.Com., C.A.
Demonstrator in Accountancy. Arts Building.

W. A. G. MCANDREW, B.A. (Toronto), Docteur de l'Université de Paris.
Sessional Lecturer in French. Arts Building.

WILBERT GEORGE MCBRIDE, B.Sc.
Macdonald Professor of Mining Engineering and Chairman of the Department of Mining and Metallurgical Engineering.
Chemistry and Mining Building.

JOSEPH L. MCCARTHY, M.S. (Idaho), Ph.D.
Sessional Lecturer in Chemistry. Chemistry Building.

A. W. MCCLELLAND, D.D.S.
Professor of Orthodontia. 1117 St. Catherine St. West.

MARGARET S. McCREADY, B.A. (Toronto).
Director of the School of Household Science.
Macdonald College.

P. F. McCULLAGH, B.A. (Toronto), M.A. (McGill), Ph.D. (Chicago).
Assistant Professor of Classics and Assistant to the Dean of the Faculty of Arts and Science. Arts Building.

L. R. McCURDY, M.Sc.
Assistant Professor of Mechanical Engineering.
Engineering Building.

H. E. MacDERMOT, M.D., C.M., F.R.C.P. (C.).
Demonstrator in Medicine. Drummond Medical Building.

P. N. MacDERMOT, M.D., C.M.
Demonstrator in Pœdiatrics. 1414 Drummond St.

ELIZABETH McDONALD, B.A.
Assistant in English. Arts Building.

J. E. MacDONALD.
Instructor on the French Horn. Conservatorium of Music.

R. ST. J. MACDONALD, J.P., V.D., B.A. (St. F.X.), M.D., C.M., D.P.H., Fel. Roy. San. Inst.
Associate Professor of Public Health and Preventive Medicine.
Medical Building.

HUGH McEACHRAN, L.Mus.
Instructor in Pianoforte. 1115 Sherbrooke St. West.

DONALD McEACHERN, M.D. (Man.).
Lecturer in Neurology. Montreal Neurological Institute.

J. U. MacEWAN, B.Sc. (Queen's), M.S. (Montana School of Mines).
Birks Professor of Metallurgy. Chemistry and Mining Building.

GWENDOLINE McEWEN.
Sessional Lecturer in Children's Literature.
Westmount Public Library.

KENNETH T. MacFARLANE, M.D. (Western Ontario).
Assistant Demonstrator in Obstetrics and Gynœcology.
1374 Sherbrooke St. West

WILLIAM D. McFARLANE, B.S.A., M.A., Ph.D. (Toronto).
Professor and Chairman of the Department of Chemistry.
Macdonald College.

C. A. McINTOSH, B.A., M.D., C.M.*
Lecturer in Surgery. 1390 Sherbrooke St. West.

J. F. McINTOSH, B.A. (U.N.B.), M.D., C.M.
Lecturer in Medicine and Secretary of the Faculty of Medicine.
Medical Building.

---

*On War Service.

J. F. MacIver, M.D., C.M. (Queen's).
Demonstrator in Medicine. 3757 Wilson Ave.

A. A. Mackay, M.D., C.M.
Demonstrator in Psychiatry. 1227 Sherbrooke St. W.

F. H. Mackay, M.D., C.M., F.R.C.P. (C.).
Clinical Professor of Neurology. 1390 Sherbrooke St. West.

J. W. McKay, M.D., C.M.
Demonstrator in Radiology. Montreal General Hospital.

Mrs. H. A. McKean.
Instructor in Remedial Gymnastics. School of Physical Education.

D. W. McKechnie, D.S.O., V.D., M.D., C.M.
Lecturer in Medicine. 570 Milton St.

S. Hanford McKee, C.M.G., J.P., B.A. (U.N.B.), M.D., C.M., F.R.C.S. (C.).
Professor of Ophthalmology and Chairman of the Department. 1528 Crescent St.

R. D. McKenna, M.D., C.M.
Assistant Demonstrator in Pathology. Pathological Institute.

F. E. McKenty, M.D., C.M., F.R.C.S. (Eng.), F.R.C.S. (C.), F.A.C.S.
Associate Professor of Surgery. 2064 Union Ave.

John C. Mackenzie, M.D., C.M.*
Instructor in Hospital Economics and Administration, School for Graduate Nurses. Montreal General Hospital.

Mary E. Mackenzie, B.A. (Dal.), M.A.
Lecturer in English and Resident Assistant in the Royal Victoria College Royal Victoria College.

Charles Millar McKergow, M.Sc.
Thomas Workman Professor of Mechanical Engineering and Chairman of the Department. 343 Kensington Ave., Westmount.

L. H. McKim, M.D., C.M., F.R.C.S. (C.), F.A.C.S.
Lecturer in Surgery. Medical Arts Building.

William Fraser Macklaier, B.C.L.
Lecturer in Civil Procedure. 507 Place d'Armes.

J. Douglas McLean, B.Sc. (New Brunswick).
Demonstrator in Chemistry. Chemistry Building.

Neil Bruce MacLean, D.S.O., M.A. (Toronto), Ph.D. (Chicago), F.A.I.A.
Professor of Applied Mathematics and Joint Chairman of the Department. Engineering Building.

*On War Service.

N. W. McLellan, B.A.Sc. (British Columbia), M.D., C.M.
Demonstrator in Bacteriology. Pathological Institute.

Roderick D. Maclennan, M.A. (Edin.).
Frothingham Professor of Logic and Metaphysics, Chairman of the Humanities Group of the Faculty of Arts and Science, and Chairman of the Department of Philosophy. Arts Building.

J. Wendell Macleod, B.Sc., M.D., C.M., F.R.C.P. (C.).
Demonstrator in Medicine. 1390 Sherbrooke St. West.

R. E. McMahon, D.D.S.*
Clinical Demonstrator in Dentistry. Drummond Medical Building.

Norman B. McMaster, M.Sc.
Lecturer in Bacteriology. Macdonald College.

Hon. Cyrus Macmillan, M.A., (McGill and Harvard), Ph.D. (Harvard).
Dean of the Faculty of Arts and Science, Molson Professor of the English Language and Literature and Chairman of the Department.
484 Wood Ave., Westmount.

J. A. MacMillan, M.D., C.M.
Lecturer in Ophthalmology. 1410 Stanley St.

W. J. McNally, B.A., M.D., C.M. (Dalhousie), M.Sc., D.Sc., D.L.O. (R.C.P. & S., Eng.), F.R.C.S. (C.).
Lecturer in Oto-Laryngology. 1509 Sherbrooke St. West.

A. E. McNaughton, M.D., C.M.
Demonstrator in Anatomy. Medical Building.

B. F. Macnaughton, M.D., C.M., F.R.C.S. (C.).
Demonstrator in Oto-Laryngology.
1024 Drummond Medical Building

Francis L. McNaughton, B.A., M.D., C.M.
Lecturer in Neurology and Teaching Fellow in Anatomy.
Montreal Neurological Institute.

Anna I. McPherson, B.A., M.Sc. (McGill), Ph.D. (Chicago).
Demonstrator in Physics. Physics Building.

Lorne F. McRae, D.D.S.*
Clinical Demonstrator in Dentistry. Drummond Medical Building.

O. Maass, M.Sc., Ph.D. (Harvard), F.R.S.C., F.R.S. (Lond.).
Macdonald Professor of Physical Chemistry and Chairman of the Department of Chemistry. Chemistry Building.

F. B. Maddock, M.Sc. (Dal.).
Demonstrator in Chemistry. Chemistry Building.

*On War Service.

PAUL R. MARCHAND, D.D.S.
Clinical Demonstrator in Dentistry. Medical Arts Building.

LEONARD C. MARSH, B.Sc. (Econ.), (Lond.), M.A., Ph.D.
Director of Social Sciences Research. 3466 University St.

CECIL P. MARTIN, M.A., M.B., Sc.D. (Dublin).
Robert Reford Professor of Anatomy and Chairman of the Department of Anatomy, Histology and Embryology. 3577 Peel Street.

S. J. MARTIN, M.D., C.M., F.R.C.S. (Edin.).*
Demonstrator in Surgery. Suite 7, 1374 Sherbrooke St. W.

E. H. MASON, Ph.B., M.D., C.M., F.R.C.P. (C.).
Associate Professor of Medicine and Lecturer in Biochemistry.
4100 Côte des Neiges Road.

J. L. D. MASON, B.A., M.D., C.M.
Demonstrator in Medicine. 3456 Park Ave.

MARY S. MATHEWSON, R.N.
Instructor in Public Health Nursing. School for Graduate Nurses.

G. B. MAUGHAN, M.Sc., M.D. C.M.
Assistant Demonstrator in Obstetrics and Gynaecology.
Medical Building.

S. H. MAW, A.R.I.B.A.
Special Instructor in Drawing and Rendering in the School of Architecture. 1100 Beaver Hall Hill.

W. A. MAW, M.S.A.
Assistant Professor and Chairman of the Department of Poultry Husbandry. Macdonald College.

BRUCE R. MEAD, B.A.Sc. (B.C.).
Demonstrator in Chemistry. Chemistry Building.

J. C. MEAKINS, M.D., C.M., M.D., (Syd.), LL.D. (Edin.), F.A.C.P., F.R.C.P. (C., Edin. and Lond.), Hon. F.R.C.S. (Edin.), F.R.S.C., F.R.S.E.
Associate Dean of the Faculty of Medicine, Professor of Medicine, Chairman of the Department, and Director of the University Medical Clinic. 61 Rosemount Ave., Westmount.

J. F. MEAKINS, B.A., M.D., C.M.*
Assistant Demonstrator in Medicine and Clinical Medicine.
Medical Building.

G. C. MELHADO, M.D., C.M., F.C.O.G., F.A.C.S.
Lecturer in Obstetrics and Gynœcology.
1390 Sherbrooke St. W.

*On War Service.

K. I. Melville, M.Sc., M.D., C.M.
Assistant Professor of Pharmacology. Biological Building.

D. L. Mendel, M.D., C.M.
Demonstrator in Medicine. 423 St. Joseph Blvd. West.

J. H. Mennie, M.A. (British Columbia), B.Sc. (Oxon.), Ph.D.
Associate Professor of Chemistry. Chemistry Building.

Bertha Meyer, M.A.
Lecturer in German. 6 Hudson Ave., Westmount.

F. T. Miles, M.D. (Queen's).
Teaching Fellow in Anatomy. Medical Building.

Jean L. Millar.
Instructor in Singing. Conservatorium of Music.

G. Gavin Miller, M.Sc., M.D., C.M., F.R.C.S. (C.).
Lecturer in Surgery. 1390 Sherbrooke St. W.

Gita Miller, L.Mus.
Instructor in Pianoforte. Conservatorium of Music.

E. S. Mills, M.Sc., M.D., C.M., F.R.C.P. (C.).
Lecturer in Medicine. 1487 Mackay Street.

Donald S. Mitchell, B.Sc., M.D. (Northwestern).
Assistant Demonstrator in Dermatology. 1414 Drummond St.

Howard S. Mitchell, B.A., M.D. (Queen's).*
Assistant Demonstrator in Medicine. 1414 Drummond St.

W. T. B. Mitchell, M.B. (Toronto).
Associate Professor of Psychiatry and Assistant Professor of Public Health and Preventive Medicine (Mental Hygiene).
531 Pine Ave. West.

C. F. Moffatt, B.A., M.D., C.M.
Assistant Professor of Medicine. 1455 Crescent St.

Lorne C. Montgomery, M.D., C.M., F.R.C.P. (C.).*
Professor of Medicine. 1414 Drummond St.

C. H. P. Moore, D.D.S.
Clinical Demonstrator in Dentistry. 1414 Drummond St.

R. H. More, M.D. (Toronto).
Douglas Fellow in Pathology. Pathological Institute.

J. Moretti.
Instructor on the Clarinet. Conservatorium of Music.

Frank O. Morrison, B.A., M.Sc., in Agr. (Alta.), Ph.D.
Lecturer in Entomology. Macdonald College.

---

*On War Service.

HAROLD F. MORROW, B.Sc. (Sask.).
Demonstrator in Geological Sciences. Chemistry Building.

HARRY S. MORTON, B.A., M.Sc. (Dalhousie), M.B., B.S. (London), F.R.C.S. (Eng.), M.R.C.O.G.*
Demonstrator in Anatomy. 1374 Sherbrooke St. W.

N. W. MORTON, Ph.D.
Assistant Professor of Psychology. Arts Building.

H. F. MOSELEY, B.A. (McGill), M.A., D.M., M.Ch. (Oxon.), F.R.C.S. (Eng.).
Demonstrator in Surgery. 1390 Sherbrooke St. W.

D. PRESCOTT MOWRY, D.D.S.
Associate Professor of Periodontia. 1411 Stanley St.

RICHARD MUNGEN, B.Sc. (Sask.).
Demonstrator in Chemistry. Chemistry Building.

IVEAGH MUNRO, M.S.P.E. (McGill), B.Sc., M.A. (Col.).
Physical Director for Women and Assistant Physical Director of the School of Physical Education. Royal Victoria College.

E. V. MURPHY, B.A., M.D., C.M.
Demonstrator in Paediatrics. Alexandra Hospital.

D. R. MURRAY, B.A., M.D., C.M.
Assistant Demonstrator in Pathology. Pathological Institute.

E. G. D. MURRAY, O.B.E., M.A. (Cantab.), L.M.S.S.A. (London), F.R.S.C.
Professor of Bacteriology and Immunity and Chairman of the Department. 3590 University St.

HAROLD R. MURRAY, B.S.A. (Toronto), M.Sc. (Cornell).
Assistant Professor of Horticulture. Macdonald College.

R. K. NAYLOR, B.A., L.Th.
Sessional Lecturer in the Bible, Library School.
Diocesan Theological College.

A. R. NESS, B.S.A.
Professor and Chairman of the Department of Animal Husbandry.
Macdonald College.

A. H. NEUFELD, M.Sc., Ph.D. (Man.), A.C.I.C.
Lecturer in Biochemistry. Biological Building.

T. F. M. NEWTON, M.A. (McGill and Harvard).
Assistant Professor of English and Assistant Warden of Douglas Hall.
Arts Building.

J. V. V. NICHOLLS, B.A., M.D., C.M.
Assistant Demonstrator in Ophthalmology. Medical Building.

---

*On War Service.

R. V. V. Nicholls, M.Sc., Ph.D.
Assistant Professor of Chemistry. Biological Building.

W. C. Nicholson, K.C., B.A., B.C.L.
Lecturer in Commercial Law. 4685 Westmount Avenue.

Nicolai Nicolaiczuk, M.Sc.
Lecturer in Poulty Husbandry. Macdonald College.

Algy S. Noad, M.A.
Associate Professor of English. Arts Building.

P. K. Nutt, B.Com., C.A.
Demonstrator in Accountancy. 83 Lorne Ave., St. Lambert, P.Q.

J. Appleton Nutter, B.A., M.D., C.M., F.R.C.S. (C.), F.A.C.S.
Clinical Professor of Orthopœdic Surgery.
Suite 806, 1414 Drummond St.

Guy Odom, M.D. (Tulane).
Fellow in Neurology and Neurosurgery. Neurological Institute.

J. D. B. Ogilvie, B.Eng.
Demonstrator in Chemistry. Chemistry Building.

W. Fraser Oliver, Ph.D.
Lecturer in Physics. Macdonald College.

M. Onderet.
Instructor in Violin. Conservatorium of Music.

John J. O'Neill, M.Sc., Ph.D. (Yale), F.R.S.C.
Dean of the Faculty of Graduate Studies and Research, Dawson (Macdonald) Professor of Geology, and Chairman of the Department of Geological Sciences. 489 Grosvenor Ave., Westmount.

Emanuel Orlick, B.A. (Univ. of Western Ont.).
Assistant in Physical Education.
Sir Arthur Currie Memorial Gymnasium-Armoury.

Samuel Ortenberg, M.D., C.M.
Assistant Demonstrator in Medicine. 1538 Sherbrooke St. W.

Martin D. O'Shaughnessy, M.Eng.
Demonstrator in Mining and Metallurgical Engineering.
Chemistry Building.

F. Fitz Osborne, M.A.Sc. (U.B.C.), Ph.D. (Yale), F.R.S.C.
Associate Professor of Geology.
Chemistry Building.

Gordon Pall, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Chicago).
Assistant Professor of Mathematics, (leave of absence 1940-41).
Engineering Building.

E. M. Palmquist, B.S., M.S. ,Ph.D. (Cornell).
Assistant Professor of Botany. Biological Building.

S. F. Panter, B.Sc., B.Eng., Ph.D.
Demonstrator in Physics. Physics Building.

Roland Paquette, Li.Sci.Ch. (Montreal).
Demonstrator in Chemistry. Chemistry Building.

Ivan W. Parnell, B.A. (Cantab.), Ph.D. (Edin.).*
Lecturer in Parasitology. Macdonald College.

Frank Stewart Patch, B.A., M.D., C.M., F.R.C.S. (C.).
Professor of Urology and Chairman of the Department of Surgery.
1225 Bishop St.

Ivan Patrick, B.A., M.D., C.M., M.R.C.O.G.
Lecturer in Obstetrics and Gynæcology. 1374 Sherbrooke St. West.

R. H. Patten, B.Sc.
Assistant Professor of Mechanical Engineering. Engineering Building.

W. J. Patterson, B.A., M.D., C.M.
Lecturer in Orthopaedic Surgery. 1538 Sherbrooke St. West.

Donald R. Patton, B.Com., C.A.
Lecturer in Accountancy. Arts Building.

Marion L. Peck, R.N.
Instructor in Home Nursing. Macdonald College.

Frank G. Pedley, M.C., B.A., M.D., C.M., M.P.H. (Johns Hopkins), Dr. P.H. (Harvard).
Assistant Professor of Public Health and Preventive Medicine and University Medical Officer. Medical Building.

Wilder Penfield, Litt.B., Hon. D.Sc. (Princeton), M.D. (Johns Hopkins), B.A., B.Sc., M.A., and D.Sc. (Oxon.), F.R.C.S. (C.), F.R.S.C.
Professor of Neurology and Neurosurgery, Chairman of the Department, and Director of the Neurological Institute. 4302 Montrose Ave.

Eleanor S. Percival, B.A., M.D., C.M., F.R.C.S. (C.).
Demonstrator in Obstetrics and Gynaecology.
1374 Sherbrooke St. West.

Chateauguay Perrault, B.A., D. en Droit (Mtl.).
Sessional Lecturer in Civil Law. 132 St. James St. W.

J. N. Petersen, B.Sc., M.D., C.M.
Lecturer in Neurology. Montreal Neurological Institute.

J. G. Petrie, M.D., C.M.*
Assistant Demonstrator in Orthopedic Surgery.
1374 Sherbrooke St. W.

J. B. Phillips, M.Sc., Ph.D.
Associate Professor of Chemistry. Chemistry Building.

*On War Service.

N. W. Philpott, M.D., C.M., M.C.O.G.
Demonstrator in Obstetrics and Gynæcology.
1509 Sherbrooke St. West.

Joyce E. Pickup, L.R.A.M., A.R.C.M.
Instructor in Pianoforte. Conservatorium of Music.

C. A. Porteous, M.D. (Queen's).
Clinical Professor of Psychiatry. Verdun Protestant Hospital.

Ralph E. Powell, B.A., (Mount Allison), M.D., C.M., F.R.C.S. (Edin.), F.R.C.S. (C.), F.A.C.S.
Lecturer in Urology. 1486 Crescent St.

Miquel Prados y Such, M.D. (Madrid).
Lecturer in Neuropsychiatry. Montreal Neurological Institute.

H. Gurth Pretty, M.D., C.M., D.A.B.S.
Demonstrator in Surgery. 1414 Drummond St.

J. E. Pritchard, M.D. (Manitoba).
Lecturer in Pathology. Montreal General Hospital.

Gertrude Probyn.
Instructor in Double Bass. Conservatorium of Music.

Robert Pudenz, M.D. (Duke).
Assistant Demonstrator in Neurosurgery.
Montreal Neurological Institute.

Donalda Putnam, M.A., B.S. (Columbia).
Special Lecturer in Children's Literature.
Montreal Children's Library.

I. M. Rabinowitch, M.D., C.M., D.Sc., F.R.C.P. (C.), F.A.C.P.
Associate Professor of Medicine and Lecturer in Biochemistry.
Montreal General Hospital.

A. Gerald Racey, D.D.S.
Demonstrator in Dental Pathology. 1414 Drummond St.

Violet B. Ramsay.
Lecturer in Primary Methods and Nature Study. Macdonald College.

G. A. Stuart Ramsey, B.A., M.D., C.M.
Demonstrator in Ophthalmology. 1496 Mountain St.

M. Ratner, M.D., C.M.
Assistant Demonstrator in Surgery. Medical Building.

L. C. Raymond, M.S. (Wisconsin).
Assistant Professor of Agronomy. Macdonald College.

George E. Read, M.B. (Toronto).
Demonstrator in Psychiatry. 6635 Lasalle Boulevard.

R. G. Reid, M.D., C.M.
Assistant Demonstrator in Urology. 1414 Drummond Street.

Herschell E. Reilley, M.Sc.
Associate Professor of Physics. 120 Easton Ave., Montreal West.

Lawrence J. Rhea, B.Sc. (Texas), M.D. (Johns Hopkins).
Professor of Pathology. Montreal General Hospital.

L. W. Rice, M.D. (Western Ontario).
Assistant Demonstrator in Anaesthesia. Medical Building.

S. L. Richardson, M.D., C.M.
Assistant Demonstrator in Medicine and Clinical Medicnie.
Medical Building.

W. L. Ritchie, M.B. (Toronto), F.R.C.P. (C.).
Lecturer in Radiology. Montreal General Hospital.

E. E. Robbins, D.V.S., M.D., C.M.
Demonstrator in Medicine. 5770 Durocher Ave., Outremont.

A. R. Roberts, M.Sc.
Professor of Mechanical Engineering. Engineering Building.

Donald B. W. Robinson, B.Sc. (Mt. Allison).
Demonstrator in Chemistry. Chemistry Building.

Lucien Rodier, B.A., LL.B.
Lecturer in Commercial Law.
Room 911, Aldred Bldg., 507 Place d'Armes.

J. A. Romeyn, B.A., M.D. (Toronto).
Lecturer in Bacteriology. Pathological Institute.

Ruth B. Rorke, B.H.S.
Lecturer in Foods and Cookery. Macdonald College.

Muriel V. Roscoe, B.A. (Acadia), Ph.D. (Radcliffe).
Warden of the Royal Victoria College and Assistant Professor of Botany.
Royal Victoria College.

J. Rosenbaum, M.D., C.M., F.A.C.S.
Demonstrator in Ophthalmology.
Medico-Dental Building, 1396 St. Catherine St. West.

Edward Rosenthall, B.Sc.
Sessional Lecturer in Mathematics. Arts Building.

A. Ross, M.C., B.A. (Dalhousie), M.D., C.M.
Demonstrator in Surgery. 655 Cote St. Antoine Rd., Westmount.

A. S. Ross, B.A. (Western), A.M. (Oberlin), Ph.D.
Sessional Lecturer in Chemistry. Chemistry Building.

Alan Ross, M.D., C.M.
Lecturer in Pœdiatrics. 1414 Drummond St.

Douglas A. Ross, M.Sc., Ph.D. (McGill), M.D. (Harvard).
Lecturer in Physiology. Biological Building.

Dudley E. Ross, M.Sc., M.D., C.M.
Lecturer in Surgery. 1615 Cedar Avenue.

J. H. Ross, Ph.D.
Lecturer in Chemistry. Chemistry Building.

James B. Ross, M.D., C.M., F.R.C.P. (C.).
Assistant Professor of Medicine. 1414 Drummond St.

S. Graham Ross, D.S.O., B.A., M.D., C.M., F.R.C.P. (Lond.).
Associate Professor of Pædiatrics. 1390 Sherbrooke St. West.

Vernon Ross, M.A., B.S. in Library Science (Columbia).
Instructor in Book Selection, Reference, and Bibliography.
The Library School.

W. Bruce Ross, M.Sc., Ph.D.
Warden of Douglas Hall and Lecturer in Mathematics.
Arts Building.

A. B. Rotenberg, B.A. (Toronto), M.Sc. (Ohio State).
Demonstrator in Physics. Physics Building.

P. G. Rowe, B.Sc., M.D., C.M.
Demonstrator in Surgery. 1414 Drummond Street.

P. H. Rowe, D.D.S.
Clinical Demonstrator in Dentistry. 1117 St. Catherine St. West.

W. Rowles, M.Sc., Ph.D.
Associate Professor and Chairman of the Department of Physics.
Macdonald College.

T. E. Roy, B.A. (Acadia), M.D., C.M.
Assistant Professor of Bacteriology. Pathological Institute.

Colin K. Russel, B.A., M.D., C.M., F.R.C.P. (C.).*
Associate Professor of Neurology. Montreal Neurological Institute.

R. A. Russell.
Demonstrator in Accountancy. Arts Building.

H. Gerhard F. Sander, Ph.D.
Demonstrator and Research Assistant in the Department of Genetics.
Biological Building.

Kenneth Savard, B.Sc. (Laval).
Demonstrator in Chemistry. Chemistry Building.

F. W. Saunders, D.D.S.*
Demonstrator in Oral Surgery. 1414 Drummond St.

*On War Service.

GEORGE W. SCARTH, M.A. (Edin.), D.Sc., F.R.S.C.
Macdonald Professor of Botany and Chairman of the Department.
Biological Building.

E. E. SCHARFE, M.D., C.M.*
Assistant Demonstrator in Oto-Laryngology. 1414 Drummond St.

ROBERT W. SCHIESSLER, B.Sc. (Penn. State).
Demonstrator in Chemistry. Chemistry Building.

W. H. SCHIPPEL, B.Sc., M.Eng.
Lecturer in Electrical Engineering. 117 Graham Blvd.

EUGENE SCHNEIDER.
Instructor in Viola. Conservatorium of Music.

SYBIL SCOGGAN, M.Sc.
Sessional Lecturer in Biochemistry. Biological Building.

F. R. SCOTT, B.A. (Bishop's and Oxon.), B. Litt. (Oxon.), B.C.L.
Professor of Civil Law and Lecturer in Dental Jurisprudence.
(Leave of absence, 1940-41.) 50 Summit Circle.

JESSIE BOYD SCRIVER, B.A., M.D., C.M., F.R.C.P. (C.).
Lecturer in Pædiatrics. Royal Victoria Hospital.

W. DE M. SCRIVER, B.A., M.D., C.M., F.R.C.P. (C.).
Lecturer in Therapeutics and in Medicine. Royal Victoria Hospital.

H. N. SEGALL, M.D., C.M., F.A.C.P.
Demonstrator in Medicine. Medical Arts Building.

DOROTHY J. SEIVERIGHT, M.A. (Bishop's).
Lecturer in History and Geography. Macdonald College.

C. R. SELLER, D.D.S.
Clinical Demonstrator in Dentistry. 1411 Stanley St.

HANS SELYE, M.D., Ph.D. (Prag.).
Assistant Professor of Histology. 2055 Mansfield St.

M. I. SENG, M.D., C.M., F.R.C.S. (C.).
Demonstrator in Surgery. Medical Arts Building.

P. F. SEYMOUR, C.A.
Lecturer in Accountancy. 215 St. James St. West.

J. G. SHANNON, M.D. (Toronto).*
Assistant Demonstrator in Orthopædic Surgery.
1414 Drummond St.

L. SHAPIRO, B.A., M.D., C.M.
Assistant Demonstrator in Pathology. Pathological Institute.

*On War Service.

A. Norman Shaw, M.A. (Cantab.), D.Sc., F.R.S.C.
Professor of Physics, Chairman of the Department, and Director of the Macdonald Physics Laboratory. 1374 Sherbrooke St. W.

Baruch Silverman, M.D., C.M., F.A.P.A.
Demonstrator in Mental Hygiene and in Psychiatry.
531 Pine Ave., West.

J. C. Simpson, B.Sc., LL.D. (Mount Allison).
Dean of the Faculty of Medicine and Professor of Histology and Embryology. 354 Kensington Ave., Westmount.

Beatrice V. Simon.
Instructor in Classification, Cataloguing and Special Libraries.
The Library School.

C. H. Skitch, B.A., M.D. (Alberta).
Demonstrator in Psychiatry. 6601 Lasalle Blvd.

S. S. Smaill, D.D.S.
Clinical Demonstrator in Dentistry. 1414 Drummond St.

B. N. Smallman, M.A. (Western Ont.).
Assistant in Zoology. Biological Building.

Arthur I. Smith, B.A., B.C.L.
Lecturer in Commercial Law. 275 St. James St.

Emerson Smith, M.D., C.M., F.A.C.S., F.R.C.S. (C.).
Clinical Professor of Urology. Royal Victoria Hospital.

Frederick Smith, M.A., M.B., Ch.B. (Cantab.), M.R.C.S. (England), L.R.C.P. (Lond.).
Associate Professor of Bacteriology. Pathological Institute.

F. McIver Smith, M.Sc., M.D., C.M.
Assistant Demonstrator in Medicine. Montreal General Hospital.

Douglas W. Sparling, M.D. (Toronto).*
Assistant Demonstrator in Obstetrics and Gynaecology.
1414 Drummond St.

J. B. Spiers, L.R.A.M., A.R.C.M., M.R.S.T. (Eng.).
Instructor in Pianoforte. Conservatorium of Music.

Alice F. Spicer, B.A. (Acadia), B.S. in Phys. Ed. (B.U. Sargent).
Instructor in Physical Training. Macdonald College.

Gordon St. George Sproule, M.Sc.
Associate Professor of Metallurgy. 39 Thornhill Ave., Westmount.

D. H. Starkey, B.A., M.D., C.M.*
Demonstrator in Bacteriology. Pathological Institute.

*On War Service.

WILLIAM A. STEEVES, B.A. (Acadia), Ed.M. (Harvard).
Assistant Director of Practice Teaching. Macdonald College.

R. L. STEHLE, M.A. (Ohio State University), Ph.D. (Yale).
Professor of Pharmacology and Chairman of the Department, and Honorary Medical Librarian. Biological Building.

ARTHUR STEINBERG, Ph.D. (Col.).
Lecturer in Genetics. Biological Building.

KARL STERN, M.D. (Frankfort).
Lecturer in Neurology and Neurosurgery. Neurological Institute.

ARCHIBALD J. STEWART, M.D., C.M., F.R.C.S. (C.). F.A.C.S.
Lecturer in Surgery. Drummond Medical Building.

C. C. STEWART, M.D., C.M., D.A. (R.C.P. & S., Eng.).
Lecturer in Anœsthesia. 1522 Summerhill Ave.

G. S. STEWART, B.Sc. (Agr.).
Sessional Lecturer in Biochemistry. Biological Building.

O. W. STEWART, B.S., M.D. (Oklahama).*
Research Fellow in Neurology and Neurosurgery.
Montreal Neurological Institute.

ALICE M. STICKWOOD, B.S., M.A. (Columbia).
Lecturer in Foods, Dietetics, and Institutional Administration.
Macdonald College.

WILLIAM G. STOCKWELL, D.D.S.
Clinical Demonstrator in Dentistry. 1538 Sherbrooke St. W.

R. R. STRUTHERS, B.A., M.D., C.M., F.R.C.P. (C.).
Professor of Paediatrics and Chairman of the Department.
1414 Drummond St.

EDWIN A. STUART, M.A., (N.B.), M.D., C.M., F.R.C.S. (Edin.).
Assistant Demonstrator in Oto-Laryngology.
5175 Sherbrooke St. W.

CHARLES T. SULLIVAN, B.A. (Dal.), Ph.D. (Chicago), D.Sc., F.R.S.C.
Peter Redpath Professor of Pure Mathematics and Joint Chairman of the Department. Arts Building.

ROBERT SUMMERBY, M.S.A. (Cornell).
Professor of Agronomy and Chairman of the Department.
Macdonald College.

COLIN SUTHERLAND, B.A. (Dalhousie), M.D., C.M.
Demonstrator in Medicine. 1509 Sherbrooke St.

J. C. SUTTON, B.A., M.D., C.M.
Assistant Demonstrator in Surgery. 1538 Sherbrooke St. W.

---

*On War Service.

R. L. Swank, B.S. (Wash.), M.D., Ph.D. (Northwestern).
Teaching Fellow in Neurology and Neurosurgery.
Neurological Institute.

F. S. Symons.
Lecturer in Marine Insurance and Transportation.
615 Royal Bank Building.

William D. Tait, B.A. (Dal.), M.A. and Ph.D. (Harvard).
Professor of Psychology and Chairman of the Department.
2276 Regent Ave.

A. M. J. Tanney, M.D., C.M.
Demonstrator in Urology. 1486 Crescent St.

Herbert Tate, B.Sc. (N.U.I.), M.A. (Dublin).
Associate Professor of Mathematics. 3461 Rosedale Ave.

Bertram W. Taylor, M.Sc.
Hon. Lecturer in Zoology. Biological Building.

Fred B. Taylor, B.Arch.
Instructor in Freehand Drawing. Engineering Building.

G. Douglas Taylor, B.A., (Sask.), M.D., C.M.
Demonstrator in Medicine. 1390 Sherbrooke St. W.

Gwendolyn Taylor, B.H.S.
Supervisor of Practice House, School of Household Science.
Macdonald College.

F. J. Tees, M.C., B.A., M.D., C.M., F.R.C.S. (C.), F.A.C.S.
Lecturer in Surgery. 1538 Sherbrooke St. West.

Murray Telford, B.Sc.
Demonstrator in Physics. Physics Building.

F. R. Terroux, M.Sc., Ph.D. (Cantab.).
Lecturer in Physics. Hampton Court, Mountain St.

Kathleen Terroux, M.Sc., Ph.D.
Lecturer in Zoology. Biological Building.

A. T. Thom, B.A., M.D., C.M.
Assistant Demonstrator in Medicine and Clinical Medicine.
Medical Building.

Alexander Mackenzie Thompson, M.A. (Queen's), Ph.D. (Harvard).
Associate Professor of Classics. Arts Building.

Robert R. Thompson, M.C., V.D., A.C.A. (England and Wales), C.A. (Canada).
Professor of Accountancy and Chairman of the Accounting Committee in the School of Commerce. 487 Argyle Ave., Westmount.

DAVID L. THOMSON, M.A. (Aberdeen), Ph.D. (Cantab.), F.R.S.C.
Chairman of the Biological Sciences Group of the Faculty of Arts and Science, and Professor of Biochemistry. 3521 University St.

C. J. TIDMARSH, M.A., M.D., C.M., F.A.C.P., F.R.C.P. (C.).
Demonstrator in Medicine. 1390 Sherbrooke St. W.

S. R. TOWNSEND, B.A., M.D., C.M.
Assistant Demonstrator in Medicine and Clinical Medicine.
Medical Building.

G. EDWARD TREMBLE, M.D., C.M., D.L.O., (R.C.P. & S., Eng.), F.R.C.S. (C.).
Demonstrator in Oto-Laryngology. 1390 Sherbrooke St. West.

R. DE H. TUPPER.
Vice-Director and Secretary of the Conservatorium of Music and Instructor in Orchestral Playing. 677 Sherbrooke St. West.

PHILIP J. TURNER, F.R.I.B.A., F.R.A.I.C.
Acting Director of the School of Architecture, Professor of Building Construction, and Special Lecturer in Library Architecture.
328 Wood Ave.

WILLIAM GEORGE TURNER, M.C., B.A., M.D., C.M., M.R.C.S. (Eng.).
Clinical Professor of Orthopœdic Surgery. 900Sherbrooke St. West.

ORVILLE SIEVWRIGHT TYNDALE, K.C., M.A., B.C.L.
Professor of Civil Procedure and Evidence.
115 Sunnyside Ave., Westmount.

JOYCE TYRRELL, B.A. (Western), D.P.E.
Instructor in Physical Education. Royal Victoria College.

ALFRED UDOW, B.A.*
Demonstrator in Psychology. Arts Building.

E. FRANCES UPTON, R.N., R.R.C.
Instructor in Nursing Legislation.
Suite 1019, Medical Arts Building.

B. USHER, B.A., M.D., C.M.
Demonstrator in Dermatology. 1538 Sherbrooke St. West.

S. J. USHER, B.A., M.D., C.M.
Demonstrator in Pœdiatrics. 1538 Sherbrooke St. West.

C. VAN CAMP.
Instructor on the Trumpet. Conservatorium of Music.

J. E. VAN VLIET, D.D.S.
Clinical Demonstrator in Dentistry. 1538 Sherbrooke St. West.

*On War Service.

F. M. Van Wagner, B.P.E. (Springfield).
Assistant Physical Director.
Sir Arthur Currie Memorial Gymnasium-Armoury.

Roland J. Viger, A.B., (Catholic University, Wash.), M.D., C.M.
Demonstrator in Ophthalmology. 1414 Drummond St.

Evangeline Vincent, B.S. (Col.).
Instructor in Kindergarten Methods. Macdonald College.

Arthur M. Vineberg, M.Sc., Ph.D., M.D., C.M.
Demonstrator in Anatomy. 1414 Drummond St.

Philip F. Vineberg, M.A., B.C.L.
Sessional Lecturer in Economics and Political Science.
Arts Building.

Norman Viner, B.A., M.D., C.M.
Lecturer in Neurology. 1425 Bishop Street.

Thelma Wagner, B.Sc., M.A. (New York).
Assistant Physical Director for Women. Royal Victoria College.

W. Walford, D.D.S.
Demonstrator in Anatomy. Medical Building.

A. H. Walker.
Instructor in Floriculture and Landscaping. Macdonald College.

G. A. Wallace, M.Sc.
Associate Professor of Electrical Engineering.
4134 Hampton Ave.

A. L. Walsh, D.D.S., F.A.C.D.
Dean of the Faculty of Dentistry and Professor of Dental Surgery.
Medical Building.

C. V. Ward, B.A. (Bishop's), M.D., C.M., M.C.O.G. (Eng.), F.A.C.S.*
Demonstrator in Obstetrics and Gynæcology.
1374 Sherbrooke St. West.

R. Vance Ward, M.D., C.M., F.R.C.P. (C.).
Demonstrator in Public Health and Preventive Medicine and Demonstrator in Medicine. 561 Côte St. Catherine Road.

H. G. I. Watson, B.A. (Toronto), M.Sc., Ph.D.
Lecturer in Physics. Physics Building.

W. H. Watson, M.A., Ph.D. (Edin. & Cantab.), F.R.S.C.
Associate Professor of Physics. Physics Building.

Humphrey S. Watts, B.Sc. (Alta.).
Demonstrator in Chemistry. Chemistry Building.

Theo. R. Waugh, B.A. (Yale), M.D., C.M.
Assistant Professor of Pathology. Pathological Institute.

---

*On War Service.

JOHN J. WEATHERSEED, F.R.C.O.
Lecturer in Form and Analysis and History of Music and Instructor in Pianoforte and Organ. Conservatorium of Music.

WILLIAM S. WEAVER, B.Sc.
Demonstrator in Chemistry. Chemistry Building.

D. R. WEBSTER, B.A., M.D. (Dalhousie), Ph.D.
Assistant Demonstrator in Surgery. 1509 Sherbrooke St. W.

JAMES WEIR, B.Sc.
Associate Professor of Geodesy. Engineering Building.

ELIZABETH WHITEHEAD, B.A.
Assistant in English. Arts Building.

W. E. WHITEHEAD, M.Sc.
Lecturer in Entomology. Macdonald College.

F. W. WIGLESWORTH, M.D. (Man.).*
Lecturer in Pathology. Pathological Institute.

A. L. WILKIE, B.A. (St.F.X.), M.D., C.M.
Lecturer in Surgery. 1374 Sherbrooke St. West.

F. A. H. WILKINSON, M.D., C.M., D.A. (R.C.P. & S., Eng.), F.I.C.A.
Lecturer in Anæsthesia. Royal Victoria Hospital.

W. L. G. WILLIAMS, M.A. (Oxon.), Ph.D. (Chicago), F.R.S.C.
Professor of Mathematics. Engineering Building.

N. T. WILLIAMSON, M.D., C.M., F.R.C.S. (C.).
Lecturer in Orthopædic Surgery. Medical Arts Building.

K. A. WILSON, K.C., B.C.L.
Lecturer in Commercial Law. 275 St. James St. W.

P. ROY WILSON, B.Arch., A.R.I.B.A., A.R.C.A.
Special Lecturer in the History of Architecture. Engineering Building.

C. A. WINKLER, M.Sc. (Man.), Ph.D. (McGill), D.Phil. (Oxon.).
Assistant Professor of Chemistry. Chemistry Building.

A. R. WINN, B.Sc., D.D.S.
Clinical Demonstrator in Orthodontia. 1240 Philips Square.

F. M. WOOD, B.Sc., M.A. (Queen's).
Assistant Professor of Civil Engineering and Applied Mechanics. Engineering Building.

WILLIAM DUDLEY WOODHEAD, B.A. (Oxon.), Ph.D. (Chicago).
Hiram Mills Professor of Classics and Chairman of the Department. 241 Ballantyne Ave. North, Montreal West.

*On War Service.

E. Walter Workman, M.Sc., M.D., C.M.
Demonstrator in Anatomy and Histology.
Medical Arts Building.

Charlton Lewis Wrenshall, M.Sc. (Sask.), Ph.D.
Assistant Professor of Chemistry.
Macdonald College.

H. P. Wright, B.A. (Bishop's), M.D., C.M., F.R.C.P. (C.), F.A.C.P.
Lecturer in Pædiatrics.
1509 Sherbrooke St. W.

R. Percy Wright, M.D., C.M., F.R.C.S. (C.).*
Lecturer in Oto-Laryngology.
1414 Drummond St.

V. C. Wynne-Edwards, M.A (Oxon.).
Assistant Professor of Zoology.
Biological Building.

A. W. Young, M.D., C.M., F.R.C.P. (C.).
Lecturer in Neurology.
1390 Sherbrooke St. West.

---

*On War Service.

RESEARCH ASSOCIATES AND RESEARCH FELLOWS.

RESEARCH ASSOCIATES

1939-40

H. Bruce Collier, B.A., M.A., Ph.D. (Toronto).
Research Associate in Parasitology. Macdonald College.

Richard McCoy, B.A. (Loyola), M.D., C.M.
Research Associate in Physiology. Biological Building.

Charles Stuart McEuen, M.D., C.M.*
Research Associate in Biochemistry. Biological Building.

Max Joseph Miller, B.Sc. (Sask.), M.Sc. (McGill), Ph.D. (Tulane).
Research Associate in Parasitology. Macdonald College.

Hector Mortimer, M.B. (Aberdeen), F.R.C.S. (Ed.).
Research Associate in Biochemistry. Biological Building.

Bram Rose, B.A., M.D., C.M., M.Sc., Ph.D.
Research Associate in Experimental Medicine.
Royal Victoria Hospital.

RESEARCH FELLOWS

1939-40

Robert W. Briggs, B.S. (Boston), Ph.D. (Harvard).
Research Fellow in Zoology. Biological Building.

Alma C. Howard, B.Sc., Ph.D.
Research Fellow in Genetics. Biological Building.

S. G. Smith, M.Sc., Ph.D.
Research Fellow in Genetics. Biological Building.

UNIVERSITY SCHOLARS

With dates of first award

Arts and Science

Arendt, Eva C. 1938
Block, Shirley. 1940
Cahn, Robert P. 1940
Karp, Adele. 1937
Kaufman, Hyman. 1937
Kendall, A, Gordon. 1940
Kert, Doris. 1940
Massey, Irving. 1940
Molson, Percival. 1938
Pettes, Marguerite. 1940
Sainte-Marie, Dorothee. 1939
Weldon, John C. 1939

Medicine

Lloyd-Smith, Donald. 1940
Powles, William. 1936
Starr, Harry. 1939

Engineering

Bernstein, Saul. 1939
Booth, James. 1938
Brown, William C. 1940
Calder, John. 1938
Davis, John. 1939
Finestone, Harold. 1940
Grant, Frank A. 1940
Harvie, Thomas A. 1940
Isakson, Gabriel. 1940
Jamieson, Stewart. 1940
Perrault, Charles. 1940
Rea, R. Graham. 1939
Wishart, Gerald. 1939

A BRIEF HISTORY OF THE UNIVERSITY

In 1813 the Hon. James McGill, a leading merchant and prominent citizen of Montreal, died and left in his will a property of forty-six acres and a sum of £10,000 to the already existing Royal Institution for the Advancement of Learning upon condition that the latter erected "upon the said tract or parcel of land, an University or College, for the purposes of education and the advancement of learning in this Province"; and further upon condition that "one of the Colleges to be comprised in the said University shall be named and perpetually be known and distinguished by the appellation of 'McGill College'."

Owing to a lack of funds and persistent opposition the complete University, which had been planned by the Royal Institution, was not built, but after years of litigation and effort, the University of McGill College was opened in 1829 with what remained of James McGill's legacy as its endowment; and teaching then started in the Faculties of Medicine and Arts. The Medical Faculty grew steadily, but the Faculty of Arts had a most delicate infancy, and by the middle of the century was still scarcely alive. In 1852 an amended Charter was secured and a new era of progress and success began with the appointment in 1855 of Sir William Dawson as Principal, a position which he held for thirty-eight years.

Since 1855 the University has grown vigorously, dividing itself into further faculties, and in 1907 establishing Macdonald College at Ste. Anne de Bellevue, twenty-five miles from Montreal, as a separate residential college for Agriculture, Household Science, and the School for Teachers. This general development was greatly facilitated by the generosity of Sir William Macdonald, who gave the University a Physics Building, a Chemistry and Mining Building, and a new Engineering Building, in addition to the college named after him and mentioned above.

A history of the University, "McGill and its Story," by Professor Cyrus Macmillan, is published by the Oxford University Press, Toronto.

GOVERNMENT OF THE UNIVERSITY

McGill University is a Corporation created by a Royal Charter granted by the Crown of the United Kingdom, a general supervisory power being retained by the Crown and exercised through the Governor-General as Visitor.

The *Governors* of the University constitute the Royal Institution for the Advancement of Learning, a corporation existing under the laws of the Province of Quebec, part of the official organization of the Province, but completely self-governing. In them is vested the management of finances, the appointment of professors, and other important duties. Three of the Governors are elected by the members of the Graduates' Society

and other appointments are made by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is *ex officio* Chancellor of the University.

The *Principal* is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member). He also holds the office of Vice-Chancellor of the University.

The *Senate* consists of the Chancellor, the Principal, the Deans of the Faculties, the Warden of the Royal Victoria College, the Director of the School for Teachers, and the four Group Chairmen of the Faculty of Arts and Science, all *ex officio;* five Governors elected by the Board, and eight professors elected by the various faculties. The Principal is Chairman of Senate which is the highest academic authority of the University and has control over admission, courses of study, discipline, and degrees.

The carrying out of the regulations of Senate along with primary responsibility for the conduct of the educational work of the University, is entrusted to the several Faculties and Schools.

INCORPORATED AND AFFILIATED COLLEGES

INCORPORATED COLLEGES

Macdonald College is situated at Ste. Anne de Bellevue, about twenty-five miles from Montreal. It consists of the Faculty of Agriculture, the School of Household Science, and the School for Teachers. All courses leading to the Bachelor's and Master's degrees are under the control of the Senate of McGill University; all the short term courses in agriculture, as well as the shorter courses in domestic science are under the direction of the Faculty of Agriculture, and those for diplomas to teach in the Province of Quebec are prescribed and regulated by the Department of Education. For further particulars see pages 889 to 983.

The Royal Victoria College is the Women's College of McGill University. For further particulars, see pages 95 and 96.

AFFILIATED THEOLOGICAL COLLEGES

The Theological Colleges named below are affiliated to the University under the following arrangements:—Students in these institutions, who are pursuing a double course in Arts and Theology (six years at least), are exempted from a half course in Arts and Science in each of the Third and Fourth Years or a whole course in either.

The United Theological College of Montreal.—Principal, Rev. George G. D. Kilpatrick, B.A., D.D., 3506 University St.

THE MONTREAL DIOCESAN THEOLOGICAL COLLEGE.—Acting Principal, Rev. Oswald W. Howard, B.A., D.D., 3473 University St.

THE PRESBYTERIAN COLLEGE, MONTREAL.—Principal, Rev. F. Scott Mackenzie, M.A., Th.D. (Harvard), D.D. (Knox), 3485 McTavish St.

For Calendars and all necessary information, apply to the Principals of the several Colleges.

AFFILIATION WITH OTHER UNIVERSITIES

Under certain conditions students of McGill University may be granted advanced standing in the Universities of Oxford, Cambridge, and Dublin. Particulars of these conditions may be obtained from the Registrar.

For universities affiliated with the Faculty of Engineering, see page 411.

McGILL UNIVERSITY
MONTREAL, CANADA

GENERAL INFORMATION

ADMISSION TO THE UNIVERSITY

1. Entrance Requirements.

The entrance requirements of the various faculties and schools of the University are given in the General Announcement, and in the separate announcements of these faculties and schools. These announcements may be obtained from the Registrar's Office.

2. Application Forms.

Application forms for admission to the faculties of Arts and Science (including the School of Commerce), Engineering, Medicine, and Dentistry, and to the School of Physical Education may be obtained from the Registrar's Office. Applications for admission to other faculties and schools should be made to the deans of the faculties or the directors of the schools concerned. All application forms give details of the certificates and records applicants must submit.

3. Admission to the University.

The admissions policy of the University is definitely selective and no guarantee can be given that a student who has complied with the minimum entrance requirements will be admitted. Students, therefore, should never come to the University until they have received an official acceptance of their applications.

4. Inquiries

The Registrar will be pleased to answer inquiries concerning the University and to give advice to anyone who contemplates applying for admission.

IMMIGRATION

All students entering Canada to attend courses at the University should obtain from the Registrar's Office an official letter of acceptance and should present this to the immigration authorities at the port of entry.

British Students.

British students do not require passports to enter Canada but may require them if they wish to return and they are therefore advised to obtain them before leaving for Canada.

AMERICAN STUDENTS.

American students do not require passports. Naturalized citizens should carry their naturalization certificates and residents of that country who are not citizens should carry evidence that they are legally in the United States and that they may return upon completion of their studies.

OTHER STUDENTS.

All other students should carry passports.

Reference: Department of Mines and Resources, Memorandum No. 595335—Imm.

HEALTH SERVICE

MEDICAL EXAMINATION.

In order to promote as far as possible the physical welfare of the student body, first year students in all faculties, students in the second year in Arts, Science and Commerce, and all students coming to the University for the first time are required to be medically examined.

A student repeating a year in which medical examination is compulsory must be re-examined.

The medical examinations are conducted daily for a period of about two weeks at the beginning of the session. Subsequently special periods may be arranged for students who register late. The hours of all examination periods are announced on the notice boards throughout the University at the beginning of the Session.

Any student who has failed to comply with this regulation before the 1st of November is fined $5.00. Any student who has failed to comply before the 8th of November is fined an additional $5.00. Any student who has failed to comply before the 15th of November is suspended.

Re-examinations are held frequently throughout the session for those students who are of low category or who are suffering from physical disability.

Students of all years who wish to participate in competitive athletics or engage in moderate physical exercise are required to be medically examined.

VACCINATION.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years. Failing this, students must be vaccinated at once in a manner satisfactory to the medical examiner.

The penalties for non-compliance with this regulation are those stated above for the medical examination.

HEALTH SERVICE.

The object of the Department of Physical Education is to make and keep the students physically fit. To this end numerous voluntary activities are organized so that every student may participate in some form of physical activity and recreation.

Provision is made by the Department for the care of the health of undergraduates *during the session* but not during vacations. If a student's admission to hospital is requisitioned for by the Department, but not otherwise, one half of all public ward charges is paid by the University, provided that the total obligation assumed by the University does not exceed $125 in any one session for any one student. Should a student desire private accommodation, the difference in cost must be borne by him. A student who receives treatment by a private practitioner without having first obtained a requisition form from the Department, must bear all expenses involved. A student who has received medical attention as the result of sickness or injury must be declared fit by the University Medical Officer before he may resume participation in University physical activities.

Partial students are not entitled to the above services.

The University's contribution towards hospital expenses is made only when the illness or other condition requiring hospital treatment, was not present or was unknown or undetected at the time of admission.

The University is not responsible for damages of any kind resulting from accidents or athletic injuries which may occur or for the medical or hospital expenses incurred by any person suffering an accident or athletic injury. If, however, in any such case, a recommendation is made in writing by the Department of Physical Education, but not otherwise, the University may pay the whole or such portion of the medical or hospital expenses as is covered by such written recommendation. All cases of athletic injury requiring medical treatment or hospital accommodation must be reported immediately to the Director or the University Medical Officer. In cases of emergency, the Royal Victoria Hospital or the Montreal General Hospital accepts cases but these must be reported to the Department of Physical Education, as well as to the Athletics Manager, within forty eight hours.

No dental treatment is supplied by the University.

A leaflet concerning health service and the general work of the Department is given to every student at the beginning of the session.

BOARD AND RESIDENCE

I. For Men

Douglas Hall.

Douglas Hall, the new University residence for men, was opened in September, 1937. It is built on the staircase plan, each student normally having his own study-bedroom and sharing a sitting room with two other men, the three study-bedrooms and the sitting room forming a self-contained and separate suite. There are also a limited number of separate study-bedrooms. Meals, under the supervision of a qualified dietitian, are served in the attractive refectory and residents have in addition the use of adequate common rooms, play rooms, etc. Application forms may be obtained from the Registrar's Office or from the Warden's Office.

Hall Fees, Including Board and Residence:

FACULTY	PER SESSION
Arts and Science, Engineering, and Law	$360.00
Third and fourth years of Dentistry	380.00
The first two years of Dentistry and all years of Medicine	420.00

One half the fee is payable at the beginning of the session, and the balance on the 1st of February.

Lodgings.

Residential accommodation is provided for about 60 students in Strathcona Hall, the home of the Student Christian Movement in McGill University. Full particulars may be obtained from the Secretary of the Association, 772 Sherbrooke Street West, Montreal, who also makes arrangements to have students who are strangers to Montreal met on arrival and helped to secure lodgings, if due notice is sent of the station and time of arrival.

Board and lodging for men may also be obtained in the Diocesan College, the United Theological College, and the Presbyterian College, which are affiliated with the University.

Before the opening of the session each year a list of Approved Lodgings, which have been inspected by a representative of the University, is issued by the Lodgings Committee. This list which gives details of rooms, meals, prices, etc., may be consulted in the Registrar's Office, the Students' Union, Strathcona Hall, and other University Buildings. The list is not sent by mail.

Board is furnished in the McGill Union at low rates.

The cost of board and lodging in approved rooms varies from $35 to $60 per month. Separately, good board costs from $25, and a room from $12 upwards per month.

II. For Women

THE ROYAL VICTORIA COLLEGE

Founded and Endowed by the late Rt. Hon. Baron Strathcona and Mount Royal

The Building.

The College building, surrounded by garden and tennis courts, was erected in 1899 at the head of Union Avenue upon land adjacent to the University Campus. It was enlarged by the erection of a new wing in 1930-31.

The building provides an academic, administrative, and recreational centre for resident and non-resident students. It is situated on Sherbrooke Street, in close proximity to the University buildings, and within easy reach of Mount Royal Park. The building is fire-proof, and much thought and artistic care have been given to furnishing and decoration.

The College contains study-bedrooms for 110 students, with reception rooms and a modern infirmary. An adequate number of resident tutors live in the College.

Each student has a room of her own. These are completely furnished and no article of furniture need be brought by the students.

Admission.

Students are required to enter on the roll book of the College their names, home addresses, and addresses in Montreal. Students not residing with their parents or guardians in Montreal are expected to apply for residence at the College. Those who do not so apply are required to submit their plans for residence to the Warden and to obtain written approval.

No sanction can be given to establishments of students in apartments or elsewhere unless such households are presided over by a parent or other responsible person approved by the University. All students entering the University for the first time are required, according to municipal regulations, to present a certificate or other satisfactory evidence of successful vaccination. No student who has an infectious illness or who comes from a house in which there has been an infectious illness within a month, may enter or return to the College without giving notice and obtaining the consent of the Warden. The health of the residential students is in charge of a physician Dr. W. F. Hamilton, who may be consulted, free of charge, by arrangement with the Warden. Every student applying for admission to residence is required to fill in an entrance form and to forward a medical certificate on a form provided by the College.

Students of the College have the use of the University Library. There is also a College Library, in charge of a trained Librarian, comprising works of general literature and the chief stated books required for

the University curricula. The College Library and Reading Room are open to resident students from 9 a.m. to 11 p.m. and to non-resident students from 9 a.m. to 6 p.m. (on Saturdays from 9 a.m. to 1 p.m.).

The Warden's business hours are 10 a.m. to 1 p.m.; at other times, by special appointment. She will be glad to meet all students before the opening of the session and to discuss their plan of work then or at any other time during the session.

Applications for admission should be addressed to the Warden, Royal Victoria College, Montreal.

BOARD AND RESIDENCE.

Residence in the College is open to graduate students, undergraduates, and, in exceptional circumstances, to partial students. Application for residence should be made early, as accommodation in the college is limited. *No room is assigned for a shorter period than the University Session.* The charge for board and residence, in addition to the sessional fee for tuition, is $450 ($175 for room, $275 for board). This may be paid in two equal instalments of $225 each, in October and February. Room rent includes all expenses of heat and light. These charges cover the period of the University session from the first day of registration (September 26th) to the close of the examinations (for members of the graduating class, to the day after Convocation). A deposit fee of $20.00 is required when a room is reserved, and is deducted from the charges for the first term.

Students entering earlier or remaining later for purposes of instruction, practice teaching, or examination are charged an additional fee of $1.50 a day.

Notice of withdrawal should be given at the close of the session, or not later than September 1st. Rooms are not reserved for students whose standing at the end of the session does not entitle them to proceed to the next year.

RADIOS.

No radios may be installed in the College unless they are approved by recognized fire underwriters. Midget sets are not so approved

FEES

I. UNIVERSITY FEES

These fees include all the regular charges of the University for tuition, health service, registration, libraries, laboratories, physical education, sports, games, and graduation. The only additional fees are (1) Caution Money which is returnable (*see page 98*) and (2) the Students' Society Fee (*see page 98*).

FULL-TIME REGULAR STUDENTS.

Arts		$230.00
Science		250.00
Engineering		275.00
Medicine (British students)		375.00
Medicine (Non-British students)		475.00
Dentistry (British students)		325.00
Dentistry (Non-British students)		365.00
Law		250.00
Library School		165.00
Commerce		250.00
Graduate Faculty	145.00	165.00*
School of Physical Education		215.00
School for Graduate Nurses		165.00

*The higher fee if laboratory courses are taken.

LIMITED UNDERGRADUATES.

Arts	—In the First and Second Years, per course	$50.00
	—In all other years, per course	60.00
Science	—In the First and Second Years, per course	55.00
	—In all other years, per course	65.00
Commerce	—In the First Year, per course	50.00
	—In all other years, per course	65.00

PARTIAL STUDENTS.

Per hour of instruction per week for a full course:—

Arts and Science	$20.00
Commerce	20.00
Engineering	10.00

The maximum fee for a partial student is the full undergraduate fee.

Information concerning the fees payable by partial students taking other courses may be obtained from the Bursar's office.

Some of the facilities offered by the Department of Physical Education are available to partial students. Information concerning these and their cost may be obtained from the Department or from the Registrar's office.

PAYMENTS BY INSTALMENTS.

All fees may be paid in two instalments, one at the beginning of the session and one in January. In such cases the fees stated above are increased by an instalment fee of Five Dollars.

II. Special Fees

Late registration (first week) extra	$ 5.00
Late registration (second week) extra	10.00
Late payment fee (after specified date)	2.00
Fine for late medical examination (*see page 92*)	5.00 or 10.00
Graduation *in absentia*	10.00
Duplicate diploma	10.00
Certified copy of student's record	1.00
Additional copies (at same time)	.50
Certificate of exemption from Matriculation	2.00
Supplemental examinations, each paper	10.00
Rental of microscope (*for students in Dentistry*)	7.50

McGill graduates and graduates of other Universities may use the University Library on payment of an annual fee of $5.00.

III. Caution Money

Every student is required to make a deposit of $10 as Caution Money to cover damage to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session.

IV. Students' Society Fees

An annual fee of $10 is payable by all men undergraduates and an annual fee of $8 is payable by all women undergraduates for the support of student organizations.

The men's fee is distributed as follows: McGill Union $3.50; McGill Daily $1.50; Students' Executive Council $4.00; Undergraduate Society $1.00.

The women's fee is distributed as follows: Women's Union $2.50; McGill Daily $1.50; Students' Executive Council $4.00.

Fees for the use of the gymnasium, the rinks, and tennis courts, and free admission to all home games of University teams is included in the University Fees given on page 97.

GENERAL REGULATIONS

1. Fees are due and payable at the Bursar's Office at the beginning of the session in September or October, and the second instalment is payable in January. For exact dates see the announcements of the separate Faculties.

2. All fees are payable in Canadian currency.

3. Domicile in general determines whether a student pays the British or the Non-British fees in Medicine and Dentistry. A student who is uncertain which rate he is required to pay should consult the Registrar.

Further details concerning fees in the Faculty of Graduate Studies and Research are given in the Announcement of that faculty.

EXPENSES

It will be seen that each student pays annually three fees (1) his inclusive University fee (2) a Student's Activity fee (3) a caution money deposit. There are no other regular fees and the only extras are for late registration, for graduation *in absentia*, etc., as listed above. Consequently the expenses of a student may be estimated by adding these three fees and the cost of board and lodging (*see pages 94 to 96*). Books are necessarily a variable expense, but probably $20 a year would be about their average cost. Personal expenditure upon clothes, amusements, etc. is still more variable and no useful estimate is possible.

PART-TIME EMPLOYMENT

The Students' Council runs an Employment Agency which helps students to obtain summer work and, when possible, part-time work during the session. At present this part-time work is difficult to find and students should not rely upon earning any money while actually at college.

SPORTS FOR MEN

There is intercollegiate competition in sixteen or seventeen different sports including, football, hockey, track, basketball, skiing, swimming, boxing, wrestling, fencing, and golf, and, in addition, there is a wide programme of intra-mural competition in various sports. The Sir Arthur Currie Memorial Gymnasium, opened this year, provides accommodation for many indoor activities, while Mount Royal in Montreal, and the Laurentian Mountains north of Montreal provide excellent skiing country. A student in good health thus has ample opportunities for exercise and pleasant recreation.

SPORTS FOR WOMEN

For women students there is a wide choice of voluntary sports and recreations including archery, basketball, dancing, gymnastics, skating, skiing, swimming and tennis. Special care is taken that no student undertakes any exercise for which she is physically unsuited.

CALENDAR FOR THE SESSION 1940-41

1940

September 3rd, Tuesday. Students register in all years of Medicine and in the first two years of Dentistry.
Public Health Nursing students report for field work.
Last day for filing graduate theses for Autumn Convocation.
Summer School in Mechanical Engineering begins.

September 4th, Wednesday. Lectures begin in all years of Medicine and in the first two years of Dentistry.

September 5th, Thursday. Supplemental Examinations begin in Dentistry.

September 9th, Monday. Matriculation Examinations begin.

September 9th, Monday, and September 10th, Tuesday. Students register in Third and Fourth Years Dentistry.

September 11th, Wednesday. Lectures begin in Third and Fourth Years Dentistry.

September 12th, Thursday. Supplemental Examinations begin in Engineering and Architecture.
Special summer school in Surveying begins.

September 13th, Friday. Teaching and Supervision and Administration students report for field work in the School for Graduate Nurses.

September 14th, Saturday. Last day for reports on Ph.D. theses.

September 16th, Monday. Supplemental Examinations begin in Arts and Science, and Commerce.
Students register in the School of Physical Education.
Conservatorium of Music opens for practical work.

September 16th, Monday to September 21st, Saturday. Final orals for Ph.D.

September 17th, Tuesday. Lectures begin in the School of Physical Education.

September 18th, Wednesday. Candidates' applications received at Dean's Office, Faculty of Graduate Studies and Research.

September 20th, Friday, and September 21st, Saturday. Students register in the Library School.

September 21st, Saturday. Last day for reports on all graduate theses and examinations.

September 23rd, Monday. Lectures begin in the Library School.

September 23rd, Monday, to September 28th, Saturday. Students register in Law and First Year Engineering and Architecture; also others in Engineering and Architecture who have no conditions.

September 26th, Thursday. Lectures begin in Music.

September 26th, Thursday, to September 28th, Saturday. Students register in Arts and Science, Commerce, and the School for Graduate Nurses.

September 27th, Friday. Conditioned students register in Engineering and Architecture.

September 30th, Monday. Lectures begin in Arts and Science, Commerce, Engineering, Architecture, Law, Agriculture, Household Science, Graduate Studies and Research, and the School for Graduate Nurses.

October 5th, Saturday. Last day for receiving candidates' applications in the Faculty of Graduate Studies and Research.

October 6th, Sunday. Founder's Day.
(James McGill born October 6th, 1744, died December 19th, 1813.)

October 7th, Monday. Convocation.

*.....Thanksgiving Day. No lectures.

October 18th, Friday. Sports Day. No lectures.

October 19th, Saturday. Last day for registration and payment of fees in the Faculty of Graduate Studies and Research.

October 24th, Thursday. Last day for handing in Summer Essays and submitting Certificates regarding summer employment in the Faculty of Engineering.

November 11th, Monday. Remembrance Day. No lectures.

December 2nd, Monday, to December 11th, Wednesday. Examinations in French and German for Ph.D. students.

December 13th, Friday. First Term ends in the Library School.

December 18th, Wednesday, to December 20th, Friday. Examinations in the Library School.

December 20th, Friday. Last day of lectures in all Faculties and Schools.

1941

January 6th, Monday. Lectures resumed in all Faculties and Schools except Architecture and the first three years of Engineering.

January 6th, Monday, to January 8th, Wednesday. First term examinations in Architecture and first three years of Engineering.

January 9th, Thursday. Second term begins in Architecture and first three years of Engineering.

January 11th, Saturday. First term ends in Law.

January 13th, Monday. First term examinations begin in Arts and Science, Commerce, Fourth Year Engineering, Physical Education, and the School for Graduate Nurses.
Second term begins in Law.

January 17th, Friday. Second term begins in Arts and Science, Commerce, Fourth Year Engineering, Physical Education and the School for Graduate Nurses.

---

*Thanksgiving Day will be a University Holiday. The date will be proclaimed later by the Dominion Government.

February 10th, Monday. Founder's Day at Macdonald College. (Sir William Macdonald born February 10th, 1831, died June 9th, 1917.)

March 1st, Saturday, to March 4th, Tuesday, (inclusive). Short Recess. No lectures except for students in Medicine, Dentistry, and Music.

April 3rd, Thursday, to April 10th, Thursday. Library School trip.

April 10th, Thursday. Lectures end in first three years of Engineering and in all years of Architecture.

April 11th, Friday, to April 14th, Monday (inclusive). Easter Vacation.

April 15th, Tuesday. Examinations begin in first three years of Engineering and in all years of Architecture.

April 19th, Saturday. Last day for filing Ph.D. theses.

April 24th, Thursday. Lectures end in all Faculties and Schools except Medicine, the Library School, and Music.
Last day for filing Masters' theses not involving experimental work.

April 28th, Monday. Examinations begin in Arts and Science, Commerce, Dentistry, Fourth Year Engineering, Law, Physical Education, Agriculture, Household Science, and the School for Graduate Nurses.

April 29th, Tuesday. Examinations begin in Theory of Music.

May 2nd, Friday. Lectures end in the Library School.

May 3rd, Saturday. Last day for filing Masters' theses involving experimental work.

May 6th, Tuesday. Lectures end in Fourth Year Medicine.

May 7th, Wednesday. Examinations begin in the Library School.

May 8th, Thursday. Examinations begin in Fourth Year Medicine.
Practical examinations begin in Music.

May 9th, Friday. Examinations begin in Higher Theoretical Music.
Last day for reports on Ph.D. theses and for reports on graduate examinations.

May 10th, Saturday. Lectures end in Music.

May 10th, Saturday, to May 17th, Saturday. Final orals for Ph.D.

May 12th, Monday, to May 23rd, Friday. Practice work in the Library School.

May 14th, Wednesday. Last day for reports on Master's theses.

May 24th, Saturday. Victoria Day. University Holiday.

May 29th, Thursday. Convocation.

May 31st, Saturday. Third term ends for students in all years of Medicine except the Fourth.

June 2nd, Monday. Examinations begin for students in all years of Medicine except the Fourth.

June 16th, Monday. Matriculation Examinations begin.

McGILL UNIVERSITY

MONTREAL

GENERAL ANNOUNCEMENT

1940-41

INDEX

PAGE

Accountancy 144
Administrative Officers 109
Admission:
  Age of 118
  Application for 118
  To Arts and Science 118, 126, 142
  To Engineering 114, 144
  To Faculties and Schools 112
  To Professional Faculties 121
  To Upper Years 117
Advanced Courses 120
Advanced Standing 117, 121
Advisers 120
Age of Admission 118
Agriculture, Faculty of 115
Algebra 137, 150
Application Forms 117, 118
Architecture, School of 114
Arts and Science, Faculty of 112, 118
Attendance 120

Biology 127, 145
Botany 129
Bursaries 117, 121

Certificates Recognized 124, 141
Chemistry 130, 147
Classes of Students 119
Commerce, School of 112, 118
Co-ordinate Geometry 150

Degrees 112
Degrees, General 120
Degrees, Honour 120
Dentistry, Faculty of 115

PAGE

Drawing 131
Engineering, Faculty of 114
English 132, 148
Entrance Requirements (see Admission).
Examination Marks 120
Faculties and Schools 112
Faculty of Agriculture 115
" " Arts and Science 112, 118
" " Dentistry 115
" " Engineering 114
" " Graduate Studies and Research 115
" " Law 113
" " Medicine 112
" " Music 115
Fees (Matriculation) 122
French 133, 148
French Summer School 117
General Degrees 120
Geography 133
Geometry 137, 150
German 134, 148
Graduate Nurses, School for 116
Graduate Studies and Research, Faculty of 115
Greek 135, 148
History 135, 149
History of the University 111
Home Economics (see Household Science).
Honour Degrees 120
Household Science, School of 116
Junior Matriculation 122, 124
Latin 137, 150
Law, Faculty of 113
Library School 116

PAGE

Limited Undergraduates ... 119
McGill College ... 112
Marks, Examination ... 120
Mathematics ... 137, 150
Matriculation, Junior ... 122, 124
Matriculation, Senior ... 122, 141
Medicine, Faculty of ... 112
Music ... 138, 150
Music, Faculty of ... 115
Partial Students ... 119
Period of Study ... 119
Physical Education, School of ... 116
Physical Geography ... 138
Physics ... 138, 151
Professional Faculties ... 121
Registration ... 119
Requirements for Admission (see Admission).
Scholarships ... 117, 121
School, Library ... 116
School of Architecture ... 114
" " Commerce ... 112, 118
" " Household Science ... 116
" " Physical Education ... 116
" " School for Graduate Nurses ... 116
Schools ... 112
Senior Matriculation ... 122, 141
Spanish ... 140, 151
Summer School in French ... 117
Teachers, Training of ... 117
Terms ... 121
Trigonometry ... 138, 150
Undergraduates ... 119
Women Students ... 118

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

Principal and Vice-Chancellor.....F. Cyril James, B.Com., M.A., Ph.D. F.R.S.C.
Secretary and Bursar.....F. O. Stredder, M.A., Ph.D. (on leave of absence).
Registrar.....T. H. Matthews, M.A.
Librarian.....G. R. Lomer, M.A., Ph.D., F.L.A.
Warden of the Royal Victoria College..Muriel V. Roscoe, M.A., Ph.D.
Warden of Douglas Hall.....W. Bruce Ross, M.Sc., Ph.D.
Acting Bursar.....William Bentley, C.G.A., A.C.I.S.

FACULTY OF ARTS AND SCIENCE

Dean.....Hon. Cyrus Macmillan, M.A., Ph.D., M.P.
Acting-Director of the School of Commerce.....E. F. Beach, M.A., Ph.D.
Assistant to the Dean.....P. F. McCullagh, M.A.

FACULTY OF MEDICINE

Dean.....J. C. Simpson, B.Sc., LL.D.
Associate Dean.....J. C. Meakins, M.D., C.M., LL.D., F.R.C.P. (C.) F.R.S.E.
Secretary.....

FACULTY OF ENGINEERING

Dean.....Ernest Brown, M.Sc., M.Eng.
Secretary.....R. DeL. French, B.Sc., C.E.
Acting Director of the School of Architecture.....Philip J. Turner, F.R.I.B.A., F.R.A.I.C.

FACULTY OF DENTISTRY

Dean.....A. L. Walsh, D.D.S.

FACULTY OF MUSIC

Dean.....Douglas Clarke, M.A., Mus.B., F.R.C.M., F.R.C.O.
Vice-Director and Secretary of the Conservatorium.....R. de H. Tupper.

FACULTY OF LAW

Dean.....C. S. Le Mesurier, K.C., B.A., B.C.L.

Secretary.....John P. Humphrey, B.Com., B.A., B.C.L.

FACULTY OF GRADUATE STUDIES AND RESEARCH

Dean.....John J. O'Neill, M.Sc., Ph.D., F.R.S.C.

DEPARTMENT OF PHYSICAL EDUCATION

Director.....A. S. Lamb., B.P.E., M.D.

University Medical Officer.....Frank G. Pedley, M.C., B.A., M.D., C.M., Dr. P.H.

Physical Director for Women.....Iveagh Munro, M.S.P.E., B.Sc., M.A.

Athletics Manager.....Hay Finlay, Dip. M.S.P.E. (during the absence on war service of Lieut.-Col. D. S. Forbes).

SCHOOL FOR GRADUATE NURSES

Director.....Marion Lindeburgh, R.N., M.A.

MACDONALD COLLEGE

Vice-Principal of Macdonald College and Dean of the Faculty of Agriculture.....W. H. Brittain, M.S. in Agr., Ph.D., F.R.S.C.

Dean, School for Teachers.....Sinclair Laird, M.A., B.Phil.

Director, School of Household Science..Margaret S. McCready, B.A.

Secretary.....T. Fred. Ward.

Registrar.....A. B. Walsh, B.Sc. (Agr.).

SOCIAL SCIENCES RESEARCH

Director.....Leonard C. Marsh, B.Sc., (Econ.), M.A., Ph.D., F.S.S.

McGILL UNIVERSITY

A BRIEF DESCRIPTION

McGill University, founded under a bequest of the Hon. James McGill, a prosperous Montreal merchant who died in 1813, was established as a university by Royal Charter in 1821. It is privately endowed, the trustees of its funds being the Board of Governors who constitute "The Royal Institution for the Advancement of Learning".

The University has eight faculties and six schools. Particulars of these are given on pages 112 to 117. Seven of the faculties are situated in Montreal where the University Campus lies on the lower slopes of Mount Royal, the hill from which the city takes its name. Macdonald College at Ste. Anne de Bellevue, about twenty-five miles from Montreal, is an incorporated College of the University, and houses the Faculty of Agriculture, the School of Household Science, and the School for Teachers.

McGill University is undenominational and has now for many years been co-educational in most of its faculties and schools. Admission is definitely selective, the number of students accepted into each faculty being limited. In the 1939-40 session the number of men students studying for either degrees or diplomas was 2,203 and the corresponding number of women students was 942. These students are drawn from every province of Canada and from many other countries, the connexions with Great Britain, the West Indies, and the United States naturally being strong. At present there are in residence at the University about 25 students from Great Britain and 306 from the United States.

The following pages are intended to give in a condensed form the preliminary information that a student who contemplates entering the University would require, together with details of the Junior and Senior Matriculation, the entrance examinations conducted by the University, and a list of the certificates which are accepted as the equivalents of these examinations. Separate announcements of the several faculties and schools are also published and a list of these is printed on the inside of the front cover. There is also a pamphlet enclosed with this announcement which gives the fees in the various faculties and schools, a description of the University residences for men and women, an account of the Health Service, and a calendar of dates. The Registrar's Office will be pleased to send one or more of these announcements to anyone interested or to answer inquiries.

THE FACULTIES AND SCHOOLS OF THE UNIVERSITY

A Brief Outline With References

Announcements of these faculties and schools giving further details may be obtained from the Registrar's Office.

For fees see the Pamphlet of General Information enclosed with this announcement.

I. McGILL COLLEGE

(Faculty of Arts and Science)

See also page 118.

Degrees Offered: Bachelor of Arts (B.A.)
Bachelor of Science (B.Sc.)
Bachelor of Commerce (B. Com.)

Period of Resident Study in the Faculty: Four years from Junior Matriculation (see page 124) or three years from Senior Matriculation (see page 141).

Entrance Requirements: Junior Matriculation for admission to the First Year or Junior and Senior Matriculation with second-class standing for admission to the Second Year, or certificates recognized by the University as their equivalents (see pages 124, 141). The entrance requirements for students of American Schools and for students from Great Britain are stated on page 125.

Application Forms: For application forms apply to the Registrar's Office.

Since the majority of students coming to the University for the first time enter the Faculty of Arts and Science, further details of this Faculty are given on page 118.

II. FACULTY OF MEDICINE

Degree Offered: Doctor of Medicine and Master of Surgery (M.D., C.M.).

Diploma offered: The Diploma in Public Health (D.P.H.).

Period of Study in the Faculty for the Degree: Four years.

Licence to Practise: An interne year or a further year of study is required before the University certifies that a graduate is entitled to take the qualifying examination of any of the licensing boards, so that the length of the full professional course is five years.

Entrance Qualifications: At least three years of university work are required and a complete B.A. or B.Sc. degree is preferred. This pre-medical work must include:—

Physics: One year of general college physics with laboratory work.

Biology: One year of general biology and zoology with laboratory work. (One year of Zoology will be accepted, but Botany alone is not sufficient.)

Chemistry: Two years.

(*a*) One full year's course of general chemistry with laboratory work.

(*b*) One full year's course of organic chemistry with laboratory work.

Students who are preparing for entrance to the Faculty of Medicine are advised that they should not choose subjects which properly belong to the medical course, but should devote their time to securing a thorough preparation in the fundamental scientific and humanistic subjects.

Students are strongly advised to make themselves familiar with the licensing regulations of the province or state in which they intend to practise and to take the necessary steps to become registered. The University requires Canadian students to register with the licensing body of their province before beginning their medical course.

Since the University can accept only a small percentage of those who apply, applications should be made to the Secretary of the Faculty of Medicine as early as possible and in no case after March 1st.

For further details and application forms apply to the Secretary of the Faculty.

III. FACULTY OF LAW

The course in the Faculty of Law is based mainly on the study of the Roman and Civil systems, the curriculum and timetable being arranged on the assumption that a student is devoting his entire time to his university work.

Degree offered: Bachelor of Civil Law (B.C.L.).

Period of Study in the Faculty of Law: Three years.

Entrance Qualifications: Candidates who have completed at least two years in the Faculty of Arts and Science at McGill University will be admitted to the Faculty as degree students without examination. Other candidates must satisfy the Faculty that they possess an equivalent qualification. Nevertheless, candidates proceeding to the Bar of the

Province of Quebec must be male British subjects, hold the degree of B.A., B.Litt., or B.Sc. from a Canadian or British university, and satisfy the Bar examiners that they have successfully completed "the regular course in philosophy" in an approved university.

Candidates for admission to the Notarial profession must also be male British subjects and hold the degree of B.A., B.Litt., or B.Sc. from a Canadian, English or French university.

Further information regarding admission to practice will be found in the Quebec Bar Act, 1925, R.S.Q., chap. 210 (as amended) and the Notarial Code, 1925, R.S.Q., chap. 211 (as amended).

IV. FACULTY OF ENGINEERING

(Women are admitted to Architecture only)

Degrees offered: Bachelor of Architecture (*See below*), Bachelor of Engineering (B.Eng.), in the Departments of Chemical, Civil, Electrical, Mechanical, Metallurgical and Mining Engineering.

Period of Study in the Faculty: Four years.

Entrance Qualifications: First Year Arts and Science (B.Sc. course), *or* Senior Matriculation in English, Mathematics, Chemistry, Physics and one of Biology, French, German, Greek, History, Latin, Spanish. Students should not contemplate entering the Faculty of Engineering unless they have more than average mathematical ability. The minimum requirements in this subject are stated on page 150. For further details see the Announcement of the Faculty of Engineering.

V. SCHOOL OF ARCHITECTURE

(In the Faculty of Engineering)

Degree offered: Bachelor of Architecture (B.Arch.).

Period of Study in the School: Five years.

Entrance Qualifications: Junior Matriculation, either B.A. or B.Sc., with good marks in Elementary and preferably also in Intermediate Mathematics. Students must also satisfy the Director of the School that they have drawing ability.

VI. FACULTY OF DENTISTRY

Degree offered: Doctor of Dental Surgery (D.D.S.).

Period of Study in the Faculty for the Degree: Four years.

Entrance Qualifications: At least two years in Arts and Science, including two years of lectures and laboratory work in Chemistry (inorganic and organic), and one year each of Physics and Biology.

To be qualified to practise in the Province of Quebec, a student must take at least the last year of this pre-dental work in a recognized English university in that Province.

VII. FACULTY OF AGRICULTURE

This faculty is housed in Macdonald College at Ste. Anne de Bellevue, twenty-five miles from Montreal.

Degree offered: Bachelor of Science in Agriculture, B.Sc. (Agr.).

Period of Study in the Faculty for the Degree: Four years.

For entrance qualifications, fees, and further details, see the Announcement of Macdonald College, which may be obtained from the Registrar, Macdonald College, P.Q.

VIII. FACULTY OF MUSIC

Degree offered: Bachelor of Music (B. Mus.).

Diplomas offered: Licentiate in Music (L. Mus.).
Associate in Music (A.Mus.).

Minimum period of study in the Faculty for the Degree: Three years.

For further details see the Announcement of the Faculty of Music.

IX. FACULTY OF GRADUATE STUDIES AND RESEARCH

Degrees offered: Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M. Eng.), Master of Commerce (M. Com.), Master of Civil Law (M.C.L.), Doctor of Philosophy (Ph.D.), Doctor of Civil Law (D.C.L.), Doctor of Science (D.Sc.), Doctor of Music (D.Mus.), Doctor of Letters (D.Litt.).

For details consult the Announcement of the Faculty of Graduate Studies and Research.

X. SCHOOL OF HOUSEHOLD SCIENCE

(Women Only)

This is a school within the Faculty of Agriculture.

Degree offered: Bachelor of Household Science (B.H.S.).

Diplomas offered: See Macdonald College Announcement.

Period of Study for the B.H.S.: Four years.

Yearly fee for residents of Canada $100.00
" " for non-residents $125.00

For entrance requirements and other details see the Announcement of Macdonald College which may be obtained from the Registrar, Macdonald College, P.Q.

XI. THE LIBRARY SCHOOL

Degree offered: Bachelor of Library Science (B.L.S.).

Period of Study: One year.

Entrance Qualifications: Bachelor's degree.

For details see the Announcement of the Library School.

XII. SCHOOL OF PHYSICAL EDUCATION

(Women only)

Period of Study: Two years in the School leading to a diploma.

Entrance Requirements: First Year Arts and Science *or* Senior Matriculation.

Advanced Course: There is also an advanced course for students with a Bachelor's degree. For details see the Announcement of the School.

XIII. SCHOOL FOR GRADUATE NURSES

Diplomas offered in:

1. Teaching and Supervision in Schools of Nursing.
2. Public Health Nursing.

Advanced Diplomas offered in:

3. Administration in Hospitals and Schools of Nursing.
4. Administration and Supervision in Public Health Nursing.

Entrance Requirements: Junior Matriculation or its equivalent, and graduation from an approved school of nursing.

For the advanced courses satisfactory professional experience is required.

For details see the Announcement of the School.

XIV. FRENCH SUMMER SCHOOL

A residential summer school with an Old-Country French Staff Approximate dates 29th June to 9th August.

Inclusive Fee: $180.00.

For special announcement apply to the Registrar's Office.

XV. TRAINING OF TEACHERS

The Department of Education offers a one-year course to graduates of approved universities who wish to be teachers. Under certain conditions those who complete this course may qualify for the High School Diploma of the Province of Quebec. These conditions are given in the Announcement of the Faculty of Arts and Science. This course under certain conditions (see Announcement of the Faculty of Graduate Studies and Research) may lead later to an M.A. degree in Education.

APPLICATION FOR ADMISSION TO ALL FACULTIES

Application forms for all years in the Faculty of Arts and Science, and for the First Year in Engineering, Medicine, and Dentistry may be obtained from the Registrar's Office. Application for admission to other faculties or years should in the first instance be made by letter to the Registrar.

ADMISSION FROM OTHER UNIVERSITIES

A student of another university applying for advanced standing or for exemption from any subject or subjects which he has already studied, must submit with his application a Calendar of the University in which he has previously studied, a certified copy of his academic record, and a confidential report from an officer of instruction or administration who is familiar with his work.

SCHOLARSHIPS AND BURSARIES

Details of the University Entrance Scholarships and of other scholarships and bursaries are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

The University has a small loan fund but loans are made only to students in the upper years.

THE FACULTY OF ARTS AND SCIENCE

For further particulars see the separate announcement of the Faculty.

The undergraduate work of the University in the Humanities, in the Social Studies, in the Biological and Physical Sciences, and in Commerce, is done in McGill College, usually called the Faculty of Arts and Science.

WOMEN STUDENTS.

Women are admitted to the courses and to the degrees of the Faculty on the same terms as men, but in the more elementary courses they are usually taught in separate classes.

AGE OF ADMISSION.

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

ENTRANCE REQUIREMENTS.

1. A student may apply for admission to the First Year of the Faculty of Arts and Science after passing in the required subjects of the Junior Matriculation Examination or one of the Examinations recognized by the University as the equivalent of Junior Matriculation.

2. A student may apply for admission to the Second Year of the Faculty of Arts and Science after passing in the required subjects of the Junior and Senior Matriculation Examinations or their recognized equivalents.

Only in exceptional circumstances is a student who has not written the Junior Matriculation admitted to the Second Year by Senior Matriculation.

At least a good average second class standing in Senior Matriculation or its equivalent is required for entrance to the Second Year.

3. Full details of these examinations are given on pp. 124, 141.

4. A student with incomplete matriculation qualifications is not admitted as an undergraduate.

APPLICATIONS FOR ADMISSION.

All applications to enter the Faculty of Arts and Science must be made on forms which may be obtained from the Registrar's office. Completed applications must reach the Registrar not later than September 11th.

The number of students admitted is limited and the Faculty is not bound to accept applicants who have passed the required examinations.

CLASSES OF STUDENTS IN THE FACULTY.

(1) *Undergraduates:* Students with complete matriculation qualifications taking the regular work of their year towards a degree.

(2) *Limited Undergraduates:* Students with complete matriculation qualifications who have been given the permission of the Dean of the Faculty to distribute the four years' work over five or more years (but not more than eight years), on the understanding that the sequence of courses conforms to the regular undergraduate rules and time table.

Limited Undergraduates are not eligible for scholarships, exhibitions, bursaries or prizes of any description and may not read for an Honour Degree.

(3) *Partial Students:* Students not registered as proceeding to a degree who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the Chairmen of the Departments concerned that they have sufficient ability to do the work of the courses they desire to take. A student who has tried and failed to matriculate is not allowed to register as a partial student. If a partial student is accepted subsequently as a regular undergraduate, examinations he has passed as a partial may, by permission of the Faculty, be counted towards his degree.

PERIOD OF STUDY.

The regular length of the course for a bachelor's degree is four years from Junior Matriculation, or three years from Senior Matriculation (see page 141). Students from other universities are sometimes admitted to the upper years, but the bachelor's degree is never conferred upon a student who has spent less than two years in the Faculty.

REGISTRATION.

Students whose applications (see above) have been accepted register in the Arts Building on September 26th or 27th, between the hours of 9.00 a.m. and 12 noon and between 2.00 p.m. and 4.30 p.m., or on September 28th between 9.00 a.m. and 12 noon.

Upper year students also register in the Arts Building at the same time.

After September 28th all registration is done in the Registrar's Office and a special late registration fee must be paid (see General Information Pamphlet).

No student is admitted after October 12th except by special permission of the Dean.

The special regulations for women students are given in the General Information Pamphlet.

ADVISERS.

At the time of registration each student entering the First Year is interviewed by an officer of instruction in the Faculty. At this interview the student is given any information or advice that he may need and is assisted in the selection of his courses. He is then assigned to an adviser, whom he may consult at any time.

ADVANCED COURSES IN THE FIRST YEAR.

The Departments giving instruction in the First Year offer special lectures or work of a more advanced character to students with adequate qualifications.

These advanced courses are generally arranged by the Departments when lectures actually commence and there is in such cases no separate registration for them.

Students in the First Year who have the necessary qualifications may be permitted by the Dean to take one or more Second Year courses.

GENERAL DEGREES AND HONOUR DEGREES.

An undergraduate in the Faculty of Arts and Science may proceed to a General Degree, involving the study of a fairly wide range of subjects with a limited amount of specialization, or to an Honour Degree which, after the Second Year, necessitates almost complete specialization in either one or two subjects.

For details see the Announcement of the Faculty of Arts and Science.

There is no Honour Degree in the School of Commerce, but students in this school and in the general courses in Arts and Science may be awarded distinction or great distinction.

ATTENDANCE.

Students in the First and Second Years are required to attend at least seven-eighths of the total number of lectures and of the total number of laboratory periods in each course. Attendance at lectures in the Third and Fourth Years is voluntary, but laboratory periods and conferences in all years are compulsory.

EXAMINATION MARKS.

The pass mark in all examinations is 50 per cent, and the marks for first and second class standing are 80 per cent and 65 per cent respectively.

THE TWO TERMS.

The session is divided into two terms, the first starting on the 30th of September and the second starting on the 17th of January. (For Calendar see the General Information Pamphlet).

The University does not admit new students in January.

ADMISSION TO THE SECOND AND THIRD YEARS.

Applications for entrance to the Second and Third Years of the Faculty should be made to the Registrar's Office on the proper forms, and must be accompanied by complete details of previous school and university work.

To obtain a bachelor's degree a student must spend at least two years in McGill College.

CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES.

Each undergraduate in the Faculty is required to register for one of the three bachelor's degrees offered (see page 112), and, unless otherwise instructed by his Dean, must follow the regular work of his year toward this degree.

Students intending to transfer into one of the professional faculties before graduating in Arts and Science should make themselves familiar with the entrance requirements of the faculty they seek to enter and should see that the courses they choose conform with these requirements. (See pages 112 to 117).

Students who have completed three years in the Arts courses and two years in the Faculty of Medicine may apply to the Faculty of Arts and Science for the B.A. degree if during both their second and third years in this Faculty at least one of the required premedical sciences was taken in addition to the regular B.A. curriculum as an extra subject. Applications for the B.A. degree from students in Medicine who completed three years in the Arts courses before the regulation was enacted, will be considered by the Faculty on their merits.

Students completing three years in either the Arts or the Science courses of the Faculty of Arts and Science and two years in Medicine are entitled to apply to the Faculty of Arts and Science for the degree of B.Sc. Students will not however be recommended for the B.Sc. degree unless they have satisfied the specific requirements for that degree or their equivalent.

SCHOLARSHIPS AND BURSARIES.

A separate announcement giving details of scholarships and bursaries may be obtained from the Registrar's Office.

MATRICULATION EXAMINATIONS

GENERAL REGULATIONS

JUNE AND SEPTEMBER EXAMINATIONS.

The Matriculation examinations are held in June and September —in June at McGill University and local centres; in September at McGill University only. The time-tables for these examinations are issued in February each year.

All inquiries, except from candidates in Great Britain, relating to the examinations should be addressed to the Registrar of the University.

CANDIDATES IN GREAT BRITAIN.

Candidates in Great Britain should consult the Honorary Representative of the University, W. A. Bulkeley-Evans, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C. 4.

APPLICATION FORMS.

Every candidate for examination is required to fill in an application form and return it to the Registrar's Office with the necessary fee before the 20th of May or the 20th of August for the June or September examinations respectively. After these dates applications may be accepted for the Montreal centre only. A special late fee of $1.00 is charged for such applications.

FEES.

Junior Matriculation. The Junior Matriculation fee is one dollar per paper with a minimum fee of two dollars and a maximum fee of ten dollars.

Senior Matriculation. The Senior Matriculation fee is two dollars per paper with a minimum fee of three dollars and a maximum fee of fifteen dollars.

Regulations.

In centres outside Montreal candidates may be required to pay the whole or part of the expenses of invigilation.

A fee of $1.00 is charged for late applications. (*See above*).

No refunds are paid to candidates after the last day of registration (20th May or 20th August), excepting only when a candidate is absent throughout the whole examination on account of illness, and a medical certificate to this effect is presented within four weeks of the close of the examination.

Fees paid for one examination cannot be credited towards a subsequent examination.

CERTIFICATES.

The examinations may be taken in parts but the University will issue a Matriculation Certificate only on the results of examinations written within a period of sixteen months.

This rule also applies to the recognition of certificates granted by other recognized examining bodies.

Matriculation certificates are issued only to candidates who have passed the complete University Matriculation Examination.

TEXT-BOOKS.

Junior Matriculation.

In 1938 the University inaugurated the policy of omitting reference to specific text-books in the syllabi of its Junior Matriculation Examinations, except in Mathematics. Set "texts" still form an essential part of the language papers, but the recommending of text-books in Chemistry, History, Physics, etc., has been discontinued.

The object of this change is to give those responsible for the preparation of candidates complete freedom to choose their own methods and to approach their subjects in any way that they feel to be desirable. A wider choice of questions in the examination papers has accompanied the change and has, it is hoped, afforded scope to the teachers and students who have utilized the freedom of the new scheme.

Senior Matriculation.

The University has also discontinued the recommendation of some of the Senior Matriculation text-books, but in other Senior Matriculation subjects it is considered important that the work should follow closely that of the corresponding course in the first year of the Faculty of Arts and Science, and in such subjects the text-books used in the University courses have been retained as Senior Matriculation text-books for the present.

CONSULTATION WITH DEPARTMENTS.

The University Departments concerned will be pleased to give school principals or specialist teachers advice concerning methods or books of reference, and to discuss problems that may arise in connexion with the syllabi for either the Junior Matriculation or the Senior Matriculation Examinations. The Registrar will be glad to arrange such conferences.

PREVIOUS PAPERS.

Books containing the examination papers set in either June or September of any one year may be obtained from the Bursar's Office at 25c. a copy.

JUNIOR MATRICULATION

For admission to the first year of the Faculty of Arts and Science, the Faculty of Agriculture, the School of Household Science, and the School of Architecture.

The entrance requirements of the other Faculties and Schools of the University are stated on pages 112 to 117.

For Senior Matriculation see page 141.

REQUIREMENTS FOR THE CERTIFICATE.

In order to pass, a candidate must obtain an average of 60 per cent in the ten required papers of the examination, and not less than 40 per cent in any paper. A candidate, however, whose marks in one paper fall below 40 per cent is given matriculation standing if his average in his ten papers is not less than 70 per cent.

CERTIFICATES RECOGNIZED

The certificates and diplomas mentioned below are accepted in lieu of the Junior Matriculation examination for admission to the University, provided that in the opinion of the University:

1. the certificate has been obtained under no easier conditions than those of the McGill Matriculation Certificate;
2. the subjects and standards of the examination are equivalent to those of the McGill Matriculation Examination.

Candidates for admission offering certificates which are not a full equivalent may be required to pass in one or more matriculation papers.

Intending students who wish to enter by certificate should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificate they hold.

PROVINCE OF QUEBEC.

The High School Leaving Certificate.

The Catholic High School Leaving Certificate.

PROVINCE OF ONTARIO.

Middle School Certificate.

PROVINCE OF NEW BRUNSWICK.

Junior Matriculation.

PROVINCE OF NOVA SCOTIA.

Grade XI Certificate.

PROVINCE OF PRINCE EDWARD ISLAND.

Second Year Certificate of Prince of Wales College.

PROVINCE OF BRITISH COLUMBIA.

Junior Matriculation.

PROVINCE OF MANITOBA.

Grade XI Certificate.

PROVINCES OF ALBERTA AND SASKATCHEWAN.

Grade XI Certificate.

NEWFOUNDLAND.

Junior Matriculation.

GREAT BRITAIN.

The School Certificate of:—

The Oxford and Cambridge Schools Examination Board.
The Oxford Local Examination Board.
The Cambridge Local Examination Board.
The Northern Universities Joint Examination Board.
The Central Welsh Board.
The University of Durham.
Bristol University.
The University of London.

The University of London Matriculation.

The Certificate of Fitness issued by the Scottish Universities Entrance Board.

The School Certificates above will be accepted for admission to the B.A. courses *with four Credits* if these are (1) English, (2) Latin or Greek, (3) French or German, (4) Mathematics or a Science; *or with five Credits* if the five are three of the Credits mentioned above and two Credits in subjects not mentioned (excluding Religious Knowledge).

For admission to the B.Sc. courses, a science may replace Latin or Greek.

For admission to the B.Com. courses, either the B.A. or the B.Sc. qualifications will be accepted.

UNITED STATES.

1. McGill University recognizes the examinations conducted by the College Entrance Examination Board, 431 West 117th Street, New York City.

2. A student may obtain matriculation qualifications by writing these examinations as a Class B candidate in *four* subjects which preferably should include

(1) English
(2) Mathematics (A1 and C or Beta or higher grades)
(3) French or German or Latin or Greek (Four-Year)
(4) A subject not already chosen.

In addition the student is required to submit his complete High School record which must show the position he occupied in his class, and the number of students in the class. A confidential letter from his Principal is also required.

3. The College Board examination in Latin or Greek is recommended for entrance to the B.A. courses, and distinct ability in scientific subjects must be shown for entrance to the B.Sc. courses.

4. Certificates from accredited High Schools are not normally recognized but pupils are sometimes admitted without further examination if they occupy a position in the first fifth of their class and are specially recommended for university work by their Principals.

MISCELLANEOUS.

Other certificates, such as those issued by universities or recognized public Examining Boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

II. SUBJECTS OF EXAMINATION

(For 1941)

A. For admission to the Arts courses of the Faculty of Arts and Science.

In the University's own Examination, ten papers are required.

Group	No. of Papers	Subject
1.	2	English.
2.	1	History.
3.	2	Latin or Greek.
4.	2	One of the following: Greek or Latin (the one not already chosen); French; German; Spanish.
5.	2	Elementary Mathematics.
6.	1	One of the following: Biology; Botany; Chemistry; Geography; Physics; Music; one paper in Intermediate Mathematics; a foreign language not already chosen (the average of the two foreign language papers is counted).
Total	10 papers	

B. For admission to the Science courses of the Faculty of Arts and Science.

In the University's own examination ten papers are required.

Group	No. of Papers	Subject
1.	2	English.
2.	1	History.
3.	2	French or German.
4.	2	Elementary Mathematics
5.	1	One of the following: Biology; Botany; Chemistry; Physics.
6.	2	Either Latin or Spanish or French or German (if not already chosen) or any two of the following papers not already chosen: (a) Intermediate Algebra.* (b) Intermediate Geometry and Trignometry.* (c) Biology or Botany. (Biology and Botany may not both be chosen). (d) Chemistry. (e) Geography. (f) Physics. (g) Music or Drawing. (Music and Drawing may not both be chosen).
Total	10 papers.	

For admission to the School of Household Science only, the Quebec High School Leaving Examination in Household Science may be substituted for Music or Drawing provided the candidate obtains an average of 67% in the other nine papers.

C. For Admission to the School of Commerce.

The B.A. or B.Sc. Junior Matriculation Examination (see above).

D. For Admission Requirements of other Faculties and Schools see pages 112 to 117.

PRESCRIPTION OF WORK IN EACH SUBJECT

For the examinations in June and September 1941.

In all papers marks will be deducted for bad errors in spelling.

BIOLOGY.

All the subjects mentioned should be studied practically, both in the field and in the classroom. Vivaria and aquaria should be kept and

*Candidates who intend to enter Engineering should choose these subjects. They are also strongly recommended for candidates who intend to study for honours in Chemistry, Mathematics, or Physics.

plants should be grown in soil and water culture. Pupils should be encouraged to collect materials and so add to the school museum. Typical preparations and demonstration dissections should be made. In small classes pupils might do some dissection personally. Simple experiments should be used wherever possible. The use of a hand lens is essential for every pupil and a microscope should be available.

The items of the syllabus may be studied in any order with due regard to the seasons and local conditions.

I. The general external characters and structure of a dicotyledonous flowering plant and of a small mammal such as a rabbit and the general biological principles to be drawn from such studies.

The general structure of a plant cell and of an animal cell as seen in Spirogyra and Amoeba. The properties of living matter. The differences between animals and plants.

II. The general structure, life-history, relation to environment, and broad classification of the following types based on practical study.

Plants: Thallophyta: Algae—unicellular and filamentous; Fungi —bacteria, yeast, mould, higher fungi. Bryophyta—one type. Pteridophyta—one type. Spermatophyta: Monocotyledons—one type. Dicotyledons—one herb and one tree. Details of the appearance and structure of the organs of a flowering plant considered in relation to function.

Animals: Protozoa—Amoeba, Paramecium; Coelenterata—Hydra; Annelida—Earthworm; Arthropoda—Crayfish, Grasshopper or Locust; Pisces—Perch, Pike, Cod or Haddock; Amphibia—Frog; Reptilia—external characters of Lizard or Turtle; Aves—external characters of a Bird; Mammalia—Rabbit.

III. The physiology of living organisms. Structure and function should be studied together.

Plant Physiology—Essentials of nutrition (photosynthesis, mineral nutrition, storage of food, special modes of feeding), respiration, water relations, growth and reproduction. The plant organism as a whole. Seasonal changes in perennial herbs and trees.

Animal Physiology—Elementary physiology of the animals listed in the preceding, including locomotion, nutrition, circulation, respiration, secretion, excretion, nerve control, action of hormones, growth, reproduction. Seasonal changes in animals.

IV. Field Natural History. The natural history of the plants and animals mentioned. Relationship of plants and animals in the general economy of nature. Trees and animals of the neighbourhood. Relation of plants and animals to their physical environment and to one another

in *one* type of community, such as woodland, pasture, cultivated land, swamp or an aquatic community. The dominant plants and animals of this community.

V. The interrelation of plants and animals with man. The importance of plants and animals as sources of food, shelter, clothing, commercial products.

Plants—Green plants as basic food supply. Man's staple food plants. Lumber, paper, rubber, etc. Plant geography and plant industries of North America in relation to climate. Useful bacteria and fungi; organic decay, carbon and nitrogen cycles. Pathogenic bacteria and fungi and their control.

Animals—Protozoan and other parasites as causal agents of disease; insects, useful and injurious, in relation to human health, farm stock, crops and forests. Food animals. Fur-bearing animals in relation to climate.

VI. Elementary outline of the principles of heredity and variation among plants and animals.

One examination paper.

BOTANY.

All the subjects mentioned should be studied practically. Aquaria should be kept, plants grown in soil and water culture, and simple physiological experiments carried out. The use of a hand lens is essential for every pupil and a microscope should be available.

The items of the syllabus may be studied in any suitable order.

I. Organs and Cells.

The general external characters and structure of a flowering plant considered in relation to its mode of life.

Structure of a plant cell; properties of protoplasm; types of cell.

II. Types and Classification.

The general structure, life history, relation to environment and broad classification of the following types:

Thallophyta:	Algae—Oscillatoria, Protococcus, Spirogyra, Oedogonium, Fucus or Laminaria. Fungi—Bacteria, Yeast, Mould, Mushroom, other Fungi, including at least one parasitic form. Lichens—general.
Bryophyta:	A Liverwort, a Moss.
Pteridophyta:	A Fern, Equisetum, Selaginella.

Spermatophyta: Gymnosperms—one Conifer type and general characters of other local species.
Angiosperms—a Monocotyledon; Dicotyledons—herbaceous and tree types. General structure of flower, fruit and seed. Comparison with homologous structures of preceding types.

Leading characters of the groups listed above. Trends in the evolution of a many celled body and of sexual reproduction as illustrated by the algal types, and of alternation of generations and adaptation to land life as displayed by the higher forms.

General characteristics and common plants of the following families of flowering plants: Liliaceæ, Gramineæ, Orchidaceæ, Ranunculaceæ, Rosaceæ. Leguminosæ, Umbelliferæ, Solanaceæ, Labiatæ, Compositæ.

III. Physiology and Histology.

Elements of the microscopic structure of a typical leaf, root, herbaceous stem and woody stem studied in relation to the functions of the organ and its parts.

Essentials of nutrition (photosynthesis, mineral nutrition, storage of food, special modes of feeding), respiration, water relations, growth, tropisms, and reproduction. The organism as a whole. Seasonal changes in perennial herbs and trees.

IV. Field Natural History.

Common trees and some other plants of the neighbourhood. Elements of the ecology of at least one local area, such as wood, meadow, swamp or seashore. Adaptation to environment. Modes of pollination and of distribution and germination of seeds.

V. Heredity.

Elementary outline of the principles of heredity and variation as applied to plants.

VI. Relation to Man.

Green plants as the basic food supply. Man's staple food plants. Nature and source of other important plant products, e.g., lumber, fibres, paper, rubber. Useful bacteria and fungi; organic decay, carbon and nitrogen cycles. Pathogenic bacteria and fungi and their control. Main types of vegetation found in North America, with emphasis on Canada; their relation to climate and to human activities.

One examination paper.

CHEMISTRY.

I. Preparation, properties and uses of hydrogen; oxygen; ozone; hydrogen peroxide; the halogens and their hydrides; nitrogen, its hydride, oxides and acids; sulphur, its hydride, oxides and acids; carbon and its oxides; phosphorus, its hydride, oxides and acids.

II. General methods of production of the metals such as sodium, calcium, magnesium, aluminum, copper, chromium, and manganese.

III. Periodic Classification of the Elements generally.

IV. Common industrial processes, including those for sodium hydroxide, lime, sodium carbonate, sulphuric acid, nitric acid, ammonia, fixation of nitrogen, and calcium carbide.

V. Water, its composition and physical properties.

VI. Aqueous solutions of electrolytes and non-electrolytes.

VII. Catalysis.

VIII. Laws and theories associated with the following names: Boyle, Charles, Avogadro, Gay Lussac, Dalton, Lavoisier, Henry, Dulong and Petit, Arrhenius, and LeChatelier.

IX. Reversible Reactions.

X. Thermo chemistry of carbon, hydrogen, ozone.

XI. Elements of Atomic Structure.

XII. Atomic, molecular and equivalent weights.

XIII. The Atmosphere.

One examination paper.

DRAWING.

Candidates must take two parts. They may take *either* (a) Parts I and II *or* (b) Parts III and IV *or* (c) *one* of III and IV and *one* of V and VI.

PART I

Elementary problems in the graphic geometry of the circle, ellipse, and plane rectilinear figures.

PART II

(*a*) Reproduce freehand ornament designs from flat copies.

(*b*) Make drawings, by freehand, or otherwise, of objects described, illustrating the principles of perspective.

(*c*) Make outline drawings of objects placed at a short distance.

PART III

Make a drawing in light and shade, with charcoal or pencil, of a plaster cast or a still life group.

PART IV

Make water colour drawings of still life groups.

PART V. COMMERCIAL ART

(*a*) Lettering, including Roman and Gothic.

(*b*) Posters, Magazine Page Advertisements.

(*c*) Illustration, in colour and otherwise.

PART VI. CRAFT DESIGN

(*a*) Principles of ornament and decoration.

(*b*) Historic Styles.

(*c*) Themes, compositions or designs, founded on flowering plants, birds, fishes, butterflies, animals and humans, for specific purposes such as:—wall papers, embroideries, silver and copper work, jewellery, stained glass, decoration of pottery, cups and saucers, etc.

ENGLISH.

A. Composition.

A short essay on a general subject and two or three essays based on the work prescribed for general reading (Numbers 3, 4, 5, and 6 below).

B. Literature. (*The dates are those of the examinations.*)

For critical study.

1. 1941: Wordsworth, Keats and Browning in Poems of the Romantic Revival (Copp, Clark Company, Toronto), or in Nineteenth Century Poetry, edited by Dilworth (Copp, Clark Company, Toronto).
   1942: Byron, Shelley, and Tennyson, in the above texts.
2. Shakspere: Plays in rotation: 1941 Richard III.
   1942 Julius Caesar.
   1943 Macbeth.

For general reading.

3. Novels in rotation: 1941 Scott, Kenilworth.
   1942 Thackeray, Henry Esmond.
   1943 Elliot, The Mill on the Floss.
4. Shakspere: Plays in rotation: 1941 Twelfth Night.
   1942 As You Like It.
   1943 The Tempest.

5. "English Essays" selected by W. Peacock. World's Classics, Vol. 32. (O.U.P.). Suggested readings:—Addison, Goldsmith, Lamb, Hazlitt, Thackeray, and Stevenson.

6. Stevenson: An Inland Voyage and Travels with a Donkey.

General questions on the books in the group "for general reading" (3, 4, 5 and 6) will be included in the paper on Literature. These books should be read carefully, but the student's attention should not be so fixed upon details that he fails to appreciate the main purpose and beauty of the work.

Candidates will be expected to commit to memory passages selected by teachers from the work prescribed "for critical study" in poetry and drama.

Two examination papers—one on Composition and one on Literature.

FRENCH.

Maupassant: Contes de Guerre (O.U.P.), and Pailleron: Le monde où l'on s'ennuie (Holt).

Grammar:—A thorough knowledge of French accidence and common syntax.

Texts:—Questions on the texts to be answered in French; translation from the texts.

Translation:—Translation into French of detached English sentences and an easy piece of continuous prose.

Composition:—**Either* a short essay to be written in French **or* The reproduction in French of a story read to the candidates in French in the examination room.

There are two papers:—I Texts and Grammar, II Composition and Translation.

All examination questions are set in French.

GEOGRAPHY.

The main purpose of instruction in Geography is assumed to be to arouse in the student's mind a perception of (1) the influence of geographical environment on human life, and (2) how human endeavour may modify the natural environment. At the same time, a certain minimum amount of factual knowledge is required.

Candidates are expected to have an elementary knowledge of map reading and an ability to draw simple sketch maps to illustrate their answers. Simple problems to be worked on a map may be included in the paper.

**These sections are alternatives, candidates for entrance to the University being strongly advised to choose the latter, if possible.*

A. *World Geography*, with special reference to the characteristics of the major natural regions.

The shape of the Earth: latitude and longitude as a means of locating position.

The movements of the Earth: local time, and the course of the Seasons.

The distribution of land and water.

Land forms and the agencies modifying them.

The Ocean: currents, tides, and waves.

The factors determining climate, including the atmospheric circulation.

The broad contrasts and chief features of the major natural regions of the World, with the reasons for their existence: e.g. the tropical forests, the great deserts, etc.

The distribution of population, introduced by an elementary treatment of the topographical, climatic, and other factors which influence the settlement and development of human communities—A brief account of racial distribution—The areas of exceptionally dense and exceptionally scanty population—Predominantly agricultural, industrial, mining, and fishing regions—The advantages of trade—The position of the great trading centres and seaports—The more important trade routes by land and sea, and the developing air routes—The more important political divisions of the World, with special attention to the British Empire.

B. *Regional Geography.*

The countries around the North Atlantic: Canada, the British Isles, the United States of America, and France, taken in decreasing order of detail. Position, physical features, climate, natural resources, and, in outline, the history of development, as influencing the present distribution of population, and the occupations, trade, and life, of the people.

Candidates may be asked to insert required data on a blank map of the whole or any part of the North American Continent and to show familiarity with such geographical forms and forces as may be exemplified in their home district.

One examination paper.

GERMAN.

Texts:—(Translation and grammatical study):—

Guerber, Märchen and Erzählungen Vol. I. (Heath), the following stories: Jakobs Haus.—Die drei Schläfer.—Der Riese und das Kind.—Der Pfeifer von Hamelin.—Undank ist der Welt Lohn.—Die Prinzessin,

die nicht Lachen Wollte.—Das gestohlene Kind.—Die Waldfrau.—Der Rekrut auf Philippsburg.—Das Reiterbild in Düsseldorf.—Die Reise des Züricher Breitopfes; and *either* Baumbach, Der Schwiegersohn (Copp, Clark Co.) *or* A. Sapper; Frieder, Im Thüringer Wald (F. S. Crofts & Co., New York, 1934).

Grammar:—A thorough knowledge of German accidence and syntax.

Translation at Sight into English of a German passage of moderate difficulty.

Translation into German of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

GREEK.

Texts: Colson, Greek Reader (Macmillan) Parts III, IV, V, Rennie, "Selections from Homer". Iliad, 6, lines 369 to 502; Iliad 22, lines 248 to 363; Odyssey 9, lines 287 to 306, 345 to 414 and 437 to 472; Odyssey 10, lines 210 to 243.

Grammar:—Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

Translation at Sight from Greek into English.

Two examination papers; one on Colson and Composition; the other on Homer and Translation at Sight.

HISTORY.

General History from 1618-1914
or
British History from 1714-1914

One examination paper.

Rigid adherence to any one author or to any one book is quite undesirable. Instead, a broad and extensive basis of reading and study should be encouraged, provided always that the standard of historical scholarship normally recognized as applicable to the last two years of secondary work is not exceeded.

For both the European Continent and the British Isles a descriptive knowledge of the principal physiographical features and their historical influence is assumed; also a similar descriptive knowledge of races and nationalities with their geographical distribution and inter-relations.

Candidates should be trained in an elementary technique in dividing their subject as a whole into successive periods or eras. For each successive period this elementary technique should be carried to a point at which a candidate is equipped to indicate the following: 1,—the prevailing and distinctive characteristics of a period together with the transitional influences leading to the next; 2,—the political and other movements common to several countries at the same time; 3,—the history of individual countries or States both large and small, when these are of outstanding importance; 4,—the changing views of the nature of the State and of the nature of government and public authority; 5,—international relations and foreign policy in general; 6,—the Balance of Power, the purposes and objects of wars, military and naval history, treaties of alliance and of peace; 7,—such leading topics as the Eastern Question, Mediterranean rivalry, the Rhine as a frontier, the Polish and the Irish Questions, etc. Religious changes and the history of Churches should be viewed in the light of their relations with the State as well as of their broader connections with society. A beginner's acquaintance should be sought with different ways of political thinking involved in such schools of thought as Liberalism, Conservatism, Reaction, Socialism, Imperialism, Nationalism, etc. To these should be added an elementary study of commerce and commercial rivalry, of transport and transportation routes, together with an outline sketch of the progress of science, of industry and industrial life, of education, letters, and the fine arts. For the British Isles, industry, industrial life and constitutional development are naturally to be stressed.

A supplementary use of biographies and of historical fiction is strongly advised. To this end the following are recommended for supplementary reading. It is suggested that they be used and discussed with close reference to class work. At least one from each group should be read and a general knowledge of the three books chosen will be assumed for the examination.

General History.

(*a*)	R. Lodge	Richelieu (Macmillan).
	Macaulay	Frederick the Great (Everyman).
	Young	Travels in France (Bohn's Popular Library).
(b)	H. Fisher	Napoleon (H.U.L.)
	J. Holland Rose	The Personality of Napoleon (Bell).
	E. Ludwig	Bismarck (Allen & Unwin).
(c)	Bolton King	Mazzini (Everyman).
	G. M. Trevelyan	Garibaldi and the Thousand (Nelson).
	Ramsay MacDonald	The Socialist Movement, 1835-1911 (H.U.L.)

British History.

(a)	Horace Walpole	Selected Letters (Everyman).
	G. O. Trevelyan	C. J. Fox (Longmans).
	J. Holland Rose	A. Short Life of Pitt (Bell & Co.).
(b)	J. L. and B. Hammond	The Village Labourer (Longmans).
	Disraeli	Sybil (Macmillan).
	Cobbett	Rural Rides (Everyman).
(c)	Lytton Strachey	Queen Victoria (Harcourt).
	R. Barry O'Brien	John Bright (Murray).
	G. B. Shaw	John Bull's Other Island (Constable).

LATIN.

Texts (Translation and Grammatical study).

Latin Prose and Poetry (Bonney and Niddrie) Part I: Caesar, II, IV, V: Nepos, I, VII, VIII: Phaedrus, III-V: Virgil, I-VIII: Ovid V, VIII, X. Part 2: Cicero, P. 133, I-V, Letters VI, VIII: Livy, IV, V, VIII, XIII, XIV: Pliny, I, VI, VIII, IX, XII: Virgil Georgics II, III, V, Aeneid, III, VI: Horace, IV, VI, VII, VIII: Martial, I-X.

Grammar.—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

Translation at Sight from Latin into English.

Composition.—Translation into Latin of detached English sentences and easy narrative.

Two examination papers; one on the Authors listed, and the other on Composition and Unseen Translation.

NOTE.—The "Roman" method of pronouncing Latin is recommended.

ELEMENTARY MATHEMATICS.

Algebra.—Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities, ratio and proportion, as in Hall and Knight's Elementary Algebra. Chapters I to XXXII (omitting portions marked with an asterisk and Arts. 303-311), or as in similar text-books.

One examination paper.

Geometry.—The paper will contain questions on practical and on theoretical geometry.

In practical geometry, where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate must provide himself with a ruler graduated in inches and tenths of an inch, and in centimeters and millimeters, a set square, a protractor, compasses, and a hard pencil. All figures should be drawn accurately.

The questions on theoretical geometery will consist of theorems contained in the text-book prescribed, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition will be accepted if it forms part of a systematic treatment of the subject.

In the proof of theorems and deductions from them, the use of hypothetical constructions will be permitted. Proofs which are only applicable to commensurable magnitudes will be accepted.

Text-book recommended:—Hall and Stevens' School Geometry, pp. 1-203, 219-265, 267-276 and Theorems 69, 70, 71, 72.

One examination paper.

INTERMEDIATE MATHEMATICS.

Algebra.—The three progressions, variations, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in the remainder of Hall and Knight's Elementary Algebra (omitting chaps. 40 to 44 inclusive), or as in similar text-books.

One examination paper.

Geometry.—As in Hall and Stevens' School Geometry, pp. 192-322, or as in similar text-books.

Trigonometry.—Measurements of angles, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle; as in Lock's Elementary Trigonometry, Chaps. I to XII; Hall and Knight's Elementary Trigonometry, Chaps. I to XII, inclusive; Hall and Knight's Elementary Trigonometry, revised Canadian edition, Chaps. I to X, inclusive; or as in similar text-books.

Geometry and Trigonometry will be included in one examination paper.

Four-figure mathematical tables will be provided.

MUSIC.

The Intermediate Grade Certificate of McGill University in practical subjects and the Junior Grade Certificate in theoretical *or* vice versa. (Details will be found in the Announcement of the Conservatorium of Music.)

PHYSICAL GEOGRAPHY.

(*See under Geography, page 133*).

PHYSICS.

The following are the main topics required in Mechanics, Heat, Electricy and Magnetism. There is one examination paper.

Mechanics.

Measurements of length, area, volume, mass and weight. The beam and spring balances.

Uniform and uniformly accelerated motion in a straight line; Newton's laws of motion and simple applications of them. Motion under gravity; the law of gravitation. Moments of forces; composition of parallel forces, equilibrium of forces (parallelogram and triangle laws); centre of gravity. Work, energy, power. Sliding friction. Mechanical Advantage of a machine; levers, pulleys, wheel and axle, differential pulley and differential wheel and axle, inclined plane, wedge, screw; efficiency of a machine. Density and specific gravity. Fluid pressure, Pascal's law; hydraulic press. Relation between pressure and depth. Buoyancy; Archimedes' Principle; floating bodies. Measurement of specific gravity of solids and liquids; specific gravity bottle, hydrometer.

Weight and pressure of air; barometers, determination of altitude, weather forecasting, Boyle's Law. Air pumps and compressors. Pressure gauge. Suction and force pumps, siphon.

Surface tension and capillarity (qualitative treatment).

Heat.

Elementary ideas of the structure of matter and kinetic theory of gases. Sources of heat. Temperature; construction of a liquid in glass thermometer, fixed points, graduation; Centigrade and Fahrenheit scales. Expansion of solids, coefficient of linear expansion; expansion of liquids, anomalous expansion of water. Expansion of gases, Charles' Law, absolute temperature; the gas equation.

Heat quantity and its measurement in calories and B.T.U., specific heat, capacity for heat: calorimetry by method of mixtures. Change of state; fusion and solidification; effect of pressure on melting point; heat of fusion; freezing mixtures; vaporization, rate of evaporation, saturated vapour, boiling, effect of pressure change (including altitude); heat of vaporization of water; cooling by evaporation. Condensation of water in the air; dew point; relative humidity, wet and dry bulb hygrometer, humidity and health; atmospheric phenomena—fog, clouds, dew, frost, rain, snow, hail.

Mechanical equivalent of heat; steam engine.

Conduction of heat, solids, liquids and gases; convection, currents in fluids, winds; radiant heat, emission and absorption; heating of buildings, ventilation; refrigeration.

Magnetism.

Natural and manufactured magnets; polarity, attraction and repulsion. Magnetic induction, magnetic field. Molecular theory. The earth as a magnet; compass, declination, dip.

Static Electricity.

Electrification by friction, attraction and repulsion, two kinds of electrification; conductors and insulators; electrons; gold leaf electroscope. Electrification by contact and induction; testing charge on a body; induced charge equal to inducing charge; charges by friction equal and opposite; charges reside on outside of empty hollow conductor. Action of points, lightning rods. Potential, capacity, condensers, Leyden jars.

Current Electricity.

Magnetization of steel by discharge of Leyden jar.

Voltaic cell, electric circuit, series and parallel arrangements. The magnetic, chemical and thermal effects of a current; Oersted's experiment, magnetic field due to a straight wire, circular wire, and helix; polarity. Action of one current on another, Ampère's Laws. Tangent and moving coil galvanometers. Electromagnet. Electric bell and telegraph. Electrolysis of water, laws of electrolysis, coulomb, measurement of current; electroplating. Voltaic cell, chemical action, electromotive force, polarization, local action. Leclanche and dry cells. Storage cells, lead accumulator. Heat developed by current; electric iron, fuses, incandescent lamp and arc light. Ohm's Law; practical units, ampere, volt, ohm; fall of potential in circuit, method of substitution for measuring resistance. Law of dependance of resistance on length and cross-section of cylinder. Work done in a circuit, rate of working in circuit and in lamp. Ammeters and voltmeters.

Electromagnetic induction; Faraday's experiments. Induction coil. Dynamo, armature, field magnets, commutator for D.C. electric motor, transformer, telephone.

SPANISH.

Two papers will be set, containing (1) questions on grammar and syntax, (2) passages for translation from prescribed texts, (3) unseen translation from Spanish into English, and (4) translation from English into Spanish.

Texts prescribed:—Alvarez Quintero: La Flor de la Vida (Heath & Co.). El padre Isla: Gil Blas de Santillana (Macmillan).

SENIOR MATRICULATION

For admission to the Second Year of the Faculty of Arts and Science (see also page 121), and to the First Year of the Faculty of Engineering.

Only in exceptional circumstances is a candidate who has not passed the Junior Matriculation, or an equivalent examination, admitted to the Second Year by Senior Matriculation.

For Junior Matriculation see page 124.

REGULATIONS

To obtain the Senior Matriculation Certificate a candidate must pass in each of the required Papers (see below), and must complete the examination within a period of sixteen months.

The pass mark in each paper is 50%.

The University cannot promise to admit every candidate who has passed the Senior Matriculation Examination, and for admission to the Second Year of the Faculty of Arts and Science at least a second-class average (65%) is required.

CERTIFICATES RECOGNIZED

The following certificates will be considered on their merits towards meeting the Senior Matriculation requirements:—

PROVINCE OF QUEBEC.
Twelfth Year Certificate.

PROVINCE OF ONTARIO.
Upper School Certificate.

PROVINCE OF NOVA SCOTIA.
Grade XII Certificate.

PROVINCE OF PRINCE EDWARD ISLAND.
Third Year Certificate of the Prince of Wales College.

PROVINCE OF MANITOBA.
Grade XII Certificate.

PROVINCES OF ALBERTA AND SASKATCHEWAN.
Grade XII Certificate.

PROVINCE OF BRITISH COLUMBIA.
Senior Matriculation Certificate.

NEWFOUNDLAND.

Senior Matriculation Certificate.

GREAT BRITAIN.

The Higher Certificates of:—

The Oxford and Cambridge Schools Examination Board.
The Oxford Local Examination Board.
The Cambridge Local Examination Board.
The Northern Universities Joint Examination Board.
The Central Welsh Board.
The University of Durham.
Bristol University.
The University of London.

In addition, pupils of recognized British Public and Secondary Schools who have obtained their School Certificates with the requisite credits, may be admitted to the Second Year without further examination, if they have satisfactorily completed at school a year's work beyond the School Certificate in the subjects of the McGill Senior Matriculation, and are specially recommended by their headmasters or headmistresses.

REQUIREMENTS

I. ARTS COURSES

For admission to the Second Year of the B.A. courses.

English.

Latin or Greek.

Mathematics* or a third foreign language.

Any two of the following:—

1. History.
2. Latin or Greek (the one not already chosen).
3. French.
4. German.
5. Spanish.
6. Science (Physics or Chemistry or Biology).
7. Music.

*Two papers: one in Algebra and one in Geometry and Trigonometry.

Candidates may substitute a third foreign language for Mathematics only if they have passed in the Elementary Mathematics of the Junior Matriculation or of some equivalent examination.

The Dean of the Faculty of Arts and Science may, at his discretion, admit a student who has substituted one of the other optional subjects for Mathematics if

(1) the student has already passed the Junior Matriculation, or some equivalent examination, in Elementary Mathematics;

(2) the record of the student shows sufficient promise to justify this concession.

Candidates who wish to enter the Faculty of Medicine at the end of the Third Year of the B.A. course must take Mathematics and Physics.

II. Science Courses

For admission to the Second Year of the B.Sc. courses.

Chemistry.

English.

French or German.*

Mathematics.**

Physics.

III. Commerce

For admission to the Second Year of the B.Com. courses.

English.

Mathematics.

French or German or Spanish.

Accountancy.

Any two of the following:—

1. Latin or Greek.
2. French or German or Spanish (one not already chosen).
3. Physics or Biology or Chemistry.
4. History.

---

*A candidate who has passed in Junior Matriculation French may satisfy the Senior Matriculation B.Sc. or B.Eng. German requirement by passing the Junior Matriculation examination in this subject with a pass mark of 50% in each paper.

**The paper in Algebra and the paper in Geometry and Trigonometry are compulsory. The paper in Co-ordinate Geometery is optional but is strongly recommended for candidates who intend to study for honours in Mathematics, Physics, or Chemistry.

IV. Engineering

For admission to the First Year of the Faculty of Engineering.

Chemistry.

English.

Mathematics (All three papers are required).

Physics.

Biology or French or German* or Greek or History or Latin or Spanish.

Students who intend to take Chemical Engineering are advised to write the examination in German.

REQUIREMENTS IN EACH SUBJECT

(For the examinations in June and September 1941)

Accountancy.

Double-Entry Book-keeping, including all subsidiary books and ledgers, up to and including the use of Control, Total or Balancing Accounts; closing off of ledgers; preparation of Trading and Profit and Loss Statements and Balance Sheets.

Books specially required.

Cash-Book suitable for an office, where all cash and cheques received are banked daily, all payments above a certain amount are made by cheque, and all lesser payments through petty cash. Cashier to be able to show the balance in the bank at any time at very short notice.

Cash-Book suitable for an office, where sums of cash are kept in the office, in addition to petty cash, and deposits in bank do not include whole of receipts. Cashier to be able to show balances of cash, etc., in office and in bank at any time, and at very short notice.

Departmental Sales and Purchases Journals for recording transactions in different classes of goods.

General Journal ruled so as to segregate items according to ledgers into which they are to be posted, in order that totals may be posted to control accounts.

---

*A candidate who has passed in Junior Matriculation French may satisfy the Senior Matriculation B.Sc. or B.Eng. German requirement by passing the Junior Matriculation examination in this subject with a pass mark of 50% in each paper.

Other matters specially required.

Bills and Notes Payable Registers.

Imprest System of Petty Cash.

Reserves for Bad Debts, Discounts and Depreciation.

Inward and Outward Consignments.

Inward and Outward Freight on Merchandise purchased and sold.

Accrued Expenses and Deferred Charges.

Single Entry Eook-keeping.

Use of Working Sheets.

Candidates may be required to define and explain such as the following:—

Invoices; I.O.U.'s; Promissory Notes; Bills of Exchange and parties thereto; Acceptances, Endorsements, etc.; Cheques; Bills drawn in a Set; Bills of Lading; Capital and Revenue Receipts and Expenditure; Current and Fixed Assets; Capitalization.

Marking is arranged so as to prevent any candidate obtaining a pass unless he has shown that he has a sound knowledge of what is outlined in the first paragraph. No candidate is passed who does not show that he understands Control Accounts and their uses. For this purpose subsidiary ledgers and their control accounts in the General Ledger must be shown in full: in addition, the books of original entry must be so ruled and organized that they will produce the required figures no matter how large may be the quantity of items dealt with.

One examination paper.

BIOLOGY.

The botanical part of this syllabus is the same as for Junior Matriculation Botany (p. 129) with the following modifications:—

(a) further knowledge of the ecological interrelation of plants and animals is required.

(b) knowledge of the characteristics of particular families of flowering plants is *not* required.

In order to fulfil the requirements of the syllabus satisfactorily, pupils must undertake individually the dissection of animals, section-cutting of plant tissues, miscroscopic examination of small organisms and tissues, and simple physiological experiments.

A more intensive study of the Junior Matriculation syllabus is expected, with extension along the following lines:

I. The structure, life-history, principles of classification and evolutionary relationships of the following, based on practical study:

Plants:

Thallophyta: Algæ—Oscillatoria, Protococcus, Spirogyra, Oedogonium, Fucus or Laminaria.

Fungi—Bacteria, Yeast, Mould, Mushroom, other Fungi including at least one parasitic form.

Lichens—general.

Bryophyta: A Liverwort, a Moss.

Pteridophyta: A Fern, Equisetum, Selaginella.

Spermatophyta: Gymnosperms—one Conifer type and general characters of other local species.

Angiosperms —a Monocotyledon; Dicotyledons—herbaceous and tree types. General structure of flower, fruit and seed. Comparison with homologous structures of preceding types.

Leading characters of the groups listed above. Trends in the evolution of a many celled body and of sexual reproduction as illustrated by the algal types, and of alternation of generations and adaptation to land life as displayed by the higher forms.

Animals:

Protozoa—Amœba, Euglena, Paramœcium, Plasmodium.

Cœlenterata—Hydra, Obelia.

Platyhelminthes—Fasciola, Tænia.

Annelida—Lumbricus, external characters of a Polychæte.

Arthropoda—Crayfish, Grasshopper.

Mollusca—Clam or Snail.

Cephalochorda—Amphioxus.

Pisces—Dogfish.

Amphibia—Frog.

Mammalia—Rabbit or Rat, skull of Dog or Cat.

Comparison of the various organ-systems in the animals listed.

Asexual and sexual reproduction. Alternation of Generations.

Elements of vertebrate embryology as found in the developing Frog and in the Chick (up to end of third day of incubation), to be studied practically.

II. Physiology: structure in relation to function.

Plants—Microscopic structure of a typical leaf, root, herbaceous stem and woody stem studied in relation to the functions of the organ and its parts.

A fuller knowledge of the principal physiological processes as outlined in the Junior Syllabus. This should be based on simple experiments carried out by the student, which he may be asked to describe.

Animals—The chief physiological processes, as outlined in the Junior Syllabus, should be studied more fully and comparatively in all the types listed in Section 1.

Tissues and organs and their functions as observed in Vertebrates.

Respiratory pigments. Vitamines, Hormones. Commensalism. Parasitism.

III. Field Natural History and Ecology.

This should be extended beyond the Junior Syllabus to include study of several biotic communities of the neighbourhood, with some knowledge of the dominant plants and animals in each and their relation to one another and to the physical environment.

Life zones and living natural resources of Canada.

IV. Heredity and Evolution.

The main principles of heredity and variation among plants and animals.

Cytological basis of heredity.

Evidences of organic evolution.

One examination paper.

CHEMISTRY.

Text-book:—Schlesinger, General Chemistry, third edition (1937), omitting pages 319-322, 333-336, 338-345, 368-371, 535-539, 542-553, 561-613, 765-767.

Laboratory Manual:—Barnes, General Chemistry Laboratory Manual, is recommended. Minimum requirements, Chaps. 7, 10, 11, 13-15, 17, 20-22, 29 (*omit cyanides*)-34, inclusive, and any twelve others, excluding chaps. 2, 3, 4 (the work of which is required in subsequent experiments), or the equivalent from any standard manual designed for first year university students.

One examination paper.

The student's notebook, setting forth his own laboratory work (together with any problems or exercises carried out in connection with the laboratory work), certified by the Instructor and Principal of the School, must be forwarded to the Registrar for the examiner's evaluation *before the date of the written examination.*

ENGLISH.

Composition.—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. In preparation for the examination it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Literature.—Candidates will be expected to have a general elementary knowledge of English literary history from the time of Chaucer, and the examination will be based upon a list of readings which may be obtained from the Registrar's Office.

Two examination papers, one on English Literature and one on English Composition.

FRENCH.

Lavisse, Histoire de France, Cours Moyen; Maupassant, Huit Contes Choisis; Jules Verne, Le Tour du Monde (Heath); Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford).

Translation at Sight from English into French and from French into English.

Two examination papers.

Oral Examination: An oral examination is held in centres where this is possible, and students intending to study French at the University are strongly advised to take this examination. The oral examination is given *in addition to* the two papers, and, when offered, counts for half the marks in the subject.

GERMAN.

Baumbach, Waldnovellen (Heath); Riehl, Burg Neideck (American Book Co.); Hauff, Das Wirtshaus im Spessart (Cambridge University Press).

Translation at Sight from German into English and from English into German.

Two examination papers: one on prescribed texts and one on translation of unseen passages from German into English and from English into German.

GREEK.

Homer, Iliad XXII (Pitt Press Series, Camb. Univ. Press); Lysias, pp. 30-92, in Shuckburgh's Lysias, Orationes (Macmillan).

N.B.—Although the above editions are suggested, others may be used.

The examination will include a paper on grammar, composition and sight translation.

Two examination papers.

HISTORY.

General History of Europe from the break-up of the Roman Empire to 1914.

In point of extent the examination will include the history of Europe from the break up of the Roman Empire to 1914. An advanced outline knowledge of the fifteen centuries involved is assumed, following the general consideration laid down for the study of the briefer period, 1618-1914 in the Junior matriculation requirements. (See page 135). Candidates are expected to have read extensively selected documentary sources; to this end constant reference to some collection of documentary sources is essential. Regular use of an historical atlas of high standard is likewise essential. Stress should be laid, as far as possible, upon the institutional side of historical change, and upon the importance of institutions, political and otherwise, in the social structure. Candidates should have acquired proficiency in describing and explaining, with the correct use of elementary technical terms, the organization of European society at any given period, and the changes in organization from one period to another.

An elementary institutional knowledge should be shown in the discussion of such topics as: the civilising mission of the Church in the Dark Ages; feudal and manorial society and mediaeval town life; the City-States of Renaissance Italy with their cultural and economic interests; the emerging of the monarchical-national State; the era of overseas discovery, exploration and settlement; the Protestant revolt and Catholic reaction with their ensuing wars; the regime of unlimited monarchy; the rise of democracy, the Napoleonic period; the influence of 19th century nationalism; and the adjustment of the Balance of Power leading to the outbreak of the World War.

Candidates should read at least one of the works in each of the following groups:—

(1) Einhard's Life of Charles the Great (tr. S. E. Turner, American Book Co., or W. Glaister, Bell & Son); Memoirs of the Crusades (Everyman's Series); Froissart's Chronicles (Everyman's Series).

(2) Machiavelli's Prince (Everyman Series); Macaulay's Essays on Machiavelli and on Ranke's History of the Popes; Motley's Rise of the Dutch Republic, Part III (Everyman's edition, vol. II).

(3) Macaulay's Essays on the War of the Succession in Spain and Frederick the Great; Carlyle's French Revolution.

(4) A. W. Kinglake's Eothen; G. M. Trevelyan's Garibaldi and the Thousand.

One examination paper.

LATIN.

Cicero, Murder at Larinum (Grose-Hodge, Macmillan); A book of Latin Poetry, edited by Jolliffe and Breslove (Macmillan), Part I.

The examination will include a paper on grammar, composition and sight translation.

Two examination papers.

MATHEMATICS.

Three examination papers, one on Algebra, one on Co-ordinate Geometry, and one on Plane Geometry and Trigonometry.

(1) *Algebra.*—Hall and Knight's Elementary Algebra (1938 edition) up to and including Chapter 39 and also pages 371-385, 396-398 with corresponding exercises on pages 400-415 or the same subject matter in similar text-books.

(2) *Co-ordinate Geometry.*—Elements of the co-ordinate geometry of the line and circle as in Parts I and II of the Elements of Analytical Geometry by J. T. Brown and C. W. M. Manson (Macmillan and Co.), omitting the following portions and problems based on them: Chapters 7, 8, and 12; the notes involving axes inclined at an oblique angle; the notes involving the use of calculus; pages 124 and 125 and article 58 or the same subject matter in similar text-books.

(3) *Plane Geometry and Trigonometry.*—

Geometry: Hall and Steven's School Geometry to page 310.

Trigonometry: Hall and Knight's Elementary Trigonometry, revised Canadian edition, Chapters I-XIII and XVII and pages 204-205 or the same subject matter in similar text-books.

Four-figure mathematical tables will be provided.

MUSIC.

(a) *Harmony.*—Scales; Intervals; Transposition of melodies; use of C clefs; barring of certain passages and determining their keys; analysis of chords; chords up to the Dominant 7th and Augmented 6th. This course leads gradually to the writing of simple harmony in 3 or 4 parts. The work covered is that required for the Intermediate Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music).

Text-books:—MacPherson, Rudiments of Music; Kitson, Elementary Harmony—Part I.

(b) *Form and Analysis.*—Phrase. Sentence. Sequence. Cadence. Accent. Rhythm. Time. Melody. Modulation. Early Dance Forms. Suites—with special consideration of the Minuet and Trio.

Text-books:—MacPherson, Form in Music; MacPherson, Studies in Phrasing and Form; R. O. Morris, Structure of Music.

(c) *History.*—Musical origins, Hebrew and Greek influence on early Christian Music. The rise of Music in two or more parts. Secular Music, English, Flemish and Italian composers. The Renaissance, Instrumental Music, (Lute, virginal, viol, etc.), Opera. Beginnings of the Orchestra. Bach and Handel. C. P. E. Bach and sonata form. Haydn. Mozart. The Romantic Movement. Nationalism in Music. Modern Music.

Text-books:—Stanford & Forsyth, A History of Music; Hadow, Music.

(d) *Aural Training.*—Development of a mental appreciation of scale degrees. Recognition of intervals and simple rhythms. Easy dictation. Sight Reading. Listening—to develop quickness of ear, memory, and natural accuracy. Quality of tone.

Two written examination papers, one on Advanced Rudiments and Harmony and one on Form and Analysis and History. In addition there will be a short practical examination on Aural Training

PHYSICS.

One paper will be set upon a general knowledge of the more important principles of elementary physics, the scope being that of Mendenhall, Eve, and Keys, College Physics (Heath) or of any equivalent text-book.

Laboratory Work:—Experiments should be performed equivalent to those outlined in an Elementary College Course in Experimental Physics (Renouf Publishing Co.). The student's notebook setting forth his own laboratory work, certified by the instructor and by the principal of the school, must be forwarded before the examination to the Registrar for inspection.

SPANISH.

Two papers will be set as in the Junior Matriculation, but the examination will be of a more advanced character.

Prescribed texts:—Baroja's "Zalacaîn el aventurero", (Heath & Co.); A. Palacio Valdés, A cara o cruz, (Macmillan).

McGILL UNIVERSITY

MONTREAL

SCHOLARSHIPS, BURSARIES, PRIZES AND MEDALS

1940 - 1941

TABLE OF CONTENTS

		Page
I.	General Statement	175
II.	Entrance Scholarships and Bursaries	177
	A. University Entrance Scholarships and Bursaries	177
	B. Other Entrance Scholarships and Bursaries	178
III.	Scholarships, Bursaries, Loan Funds, Medals, and Prizes, open to undergraduate students registered in the University	183
	A. Open to students in all Faculties	183
	B. Open to students in the Faculty of Arts and Science	185
	C. Open to students in the Royal Victoria College	191
	D. Open to students in the School of Commerce	192
	E. Open to students in the Faculty of Engineering (including Architecture)	193
	F. Open to students in the Faculty of Medicine	198
	G. Open to students in the Faculty of Dentistry	200
	H. Open to students in the Faculty of Law	201
	I. Open to students in the Faculty of Music	202
	J. Open to students in the Faculty of Agriculture	202
	K. Open to students in the School for Teachers	202
	L. Open to students in the French Summer School	202
IV.	Graduate Fellowships, Scholarships, and Medals	203
	A. Fellowships and Scholarships open to McGill graduates and to graduate students registered in the University	203
	Open to graduates in all Faculties	203
	Open to graduates in Arts and Science	203
	Open to graduates in Engineering	205
	Open to graduates in Architecture	206
	Open to graduates in Medicine	206
	Open to graduates in Law	208
	Open to graduates in Agriculture	209
	B. Fellowships and Scholarships open to graduates of McGill and of other Universities	209
V.	Scholarships, Prizes, and Medals open to students registered in the various Schools of the University	212
	Open to students in the School of Physical Education	212
	Open to students in the School for Graduate Nurses	212
VI.	Medals and Prizes in the Department of Physical Education.	214
VII.	Index of Awards	215

UNIVERSITY SCHOLARS 1939-40

With Date of First Award

ARTS

Arendt, Eva	1938
Carey, Edward F.	1937
Johnston, Charles F.	1936
Molson, Percival T.	1938
Powles, William	1936
Simkover, Harry	1936
Williams, Hester	1937

SCIENCE

Goldbloom, Victor	1939
Karp, Adele	1937
Kaufman, Hyman	1937
Rea, R. Graham	1939
Rochlin, Isidore	1938
Sainte-Marie, Dorothee	1939
Weldon, John C.	1939

ENGINEERING

Bernstein, Saul	1939
Booth, James	1938
Calder, John	1938
Campbell, Howard	1938
Davis, John F.	1939
Webb, Earle L. R.	1937
Wishart, Gerald A.	1939

MEDICINE

Starr, Harry	1939

SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS, AND LOAN FUNDS

I. GENERAL STATEMENT

1. GENERAL REGULATIONS
   (1) Scholarships are awarded and bursaries and loans granted only to students taking a regular course leading to a degree or diploma.
   (2) Scholarships are awarded only if an adequate academic standard is attained.
   (3) The annual income of scholarships and bursaries is usually paid in two installments, in October and February, about the 20th of each month.

2. UNIVERSITY SCHOLARSHIPS
   (1) Certain scholarships implying exceptionally high achievement are designated "University Scholarships" by Senate.
   (2) The winner of a University Scholarship receives the title and status of a "Scholar of the University." Winners of other scholarships do not receive this title or this status.
   (3) Each University Scholarship is of a certain maximum amount, but the amount actually awarded depends upon the financial needs of the winner. At present the minimum total value of a University Scholarship is $100.

3. BURSARIES
   (1) Bursaries are grants in aid of students of good scholarship who need such assistance to enter the University or to complete their course.
   (2) The amount of a bursary varies with the need established.
   (3) A bursary is renewable upon application and is tenable normally until the student has qualified for his degree or diploma, subject always to the dual condition that the need for it continues and that the standing of the student satisfies the University.
   (4) The holder of a scholarship may apply for an additional bursary.
   (5) Bursaries are normally paid in two instalments; viz.: October and February, about the 20th of each month.
   (6) Holders of bursaries may be required to undertake a certain amount of work for the University in return for their bursaries. The maximum number of hours any bursary holder may be asked to give is three hours a week throughout the session, or one hour for each dollar of his bursary,—whichever may be smaller.

4. LOANS

The University has a loan fund of strictly limited amount from which some assistance may be given to particularly deserving students under the following conditions:

(1) Loans are normally made only to students in upper years.

(2) Loans are made only to students of good academic standing who are specially recommended on personal grounds by the Deans of their Faculties.

(3) The loan, if granted, is made on the basis of an agreement between the applicant, or a sponsor of the applicant, and the University. The amount of the loan, the date and manner of its repayment, are made part of the agreement so that the debt may be fully discharged at the earliest possible date.

(4) An applicant for a loan should obtain an application form at the office of his Dean, and submit this, when completed to his Dean for transmission to the Bursar.

5. INTERVIEWS

Awards and grants of money are made only after a personal interview unless this requirement is explicitly waived.

6. APPLICATIONS AND ENQUIRIES

Unless otherwise stated below, applications and enquiries should in the first instance be made to the Registrar.

Applications for all entrance scholarships (see below), for University bursaries, and for the renewal of bursaries should be made on forms which may be obtained from the Registrar's Office.

II. ENTRANCE SCHOLARSHIPS AND BURSARIES

A. UNIVERSITY ENTRANCE SCHOLARSHIPS AND BURSARIES

(1) University Entrance Scholarships and Bursaries

The University offers not less than four University Entrance Scholarships, each with a maximum value of $300 a year and a minimum total value of $100 (see below), together with a limited number of bursaries of smaller value*, tenable either in the Faculty of Arts and Science or in the Faculty of Engineering, and renewable annually provided that the holders continue to merit the award.

Candidates for these awards are required to submit:

(*a*) their complete High School record,

(*b*) their marks or grades in any recognized matriculation or school-leaving examination,

(*c*) confidential letters from their school principals.

Applications must be made on forms which may be obtained from the Registrar's Office. These must be returned not later than 1st July. The school record and other supporting documents should be sent as soon as they are available.

(2) Eligibility

These scholarships and bursaries are intended for pupils of Public and Private Schools in Canada or elsewhere, but the University may, in exceptional cases, accept applications from other candidates.

Men and women are eligible on equal terms.

Applications will normally be accepted only from students who will be under the age of 20 on 1st October, 1941. In exceptional circumstances the University may waive this rule.

(3) The Title of "Scholar"

The winner of a University Scholarship is given the title of "Scholar". His name is printed as such in the Calendar and he has the status of a Scholar within the University.

**See also the Sir William Macdonald Entrance Scholarships and the Beatty Scholarships on page 178 and the Canadian Pacific Railway Scholarships on page 180.*

After entering the University the winner of a University Scholarship is not required to study for honours, and may be permitted to take the general course.

(4) Financial Need

The University may require the submission of evidence that the candidate needs the money award to further his educational interests. This evidence will normally include a statement from a parent or guardian. Whenever possible, moreover, the candidate will be interviewed. Financial need will in no case affect the University's decision as to the winner of a scholarship, but may influence the amount of the award.

The amount of the award made to any Scholar will not be published.

In special cases the University may consider an application from the winner of a scholarship for additional assistance.

B. OTHER ENTRANCE SCHOLARSHIPS AND BURSARIES

Unless otherwise stated, applications for these scholarships must be made to the Registrar before 1st July.

Unless otherwise indicated, the word "Matriculation" is used below to denote the University Matriculation Examination, the Provincial High School Leaving Examination, or the Catholic High School Leaving Examination, all of which are recognized for entrance scholarships.

Applicants who have written the High School Leaving Examinations should send a certified copy of their examination marks to the Registrar's Office before 1st August.

The Sir William Macdonald Entrance Scholarships in Arts and Science.—Four scholarships of $125 each endowed by Sir William Macdonald and open only to men are awarded under the conditions governing University Entrance Scholarships. (See page 177 for particulars).

The Beatty Scholarships.—Two scholarships, one in Classics (Greek and Latin) and one in Mathematics, of the value of $600 each, have been founded by Sir Edward Beatty, Chancellor of the University, The scholarships are payable at the rate of $150 per annum for four years. and are tenable only in the Faculty of Arts and Science. The Scholarships are awarded primarily for ability in either Classics or Mathematics, but school and matriculation records in other subjects may be taken into account. These awards are made under the conditions governing University Entrance Scholarships (seep age 177) and candidates will be required to submit:

(*a*) Their complete High School record,

(*b*) their marks or grades in any recognized matriculation or school-leaving examination,

(*c*) confidential letters from their school principals.

The winner of a Beatty Scholarship on entering the University need not necessarily take courses leading to honours in Classics or in Mathematics, but may enter any course in the Faculty for which he is qualified.

Applications must be made on forms which may be obtained from the Registrar's Office. These must be returned not later than 1st July.

These scholarships are open only to male students, educated in Canadian schools, whose parents are British or Canadian born.

THE HON. ROBERT JONES BURSARY.—Valued at $120 per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts and Science or Engineering."

Application for this scholarship should be made before 1st August through the Dean of the Faculty of Arts and Science or Engineering, as the case may be. The scholarship is not continued if the standing of the holder proves to be unsatisfactory.

ROBERT BRUCE SCHOLARSHIP AND BURSARY.—One entrace scholarship of $100 for one year is available in the Faculty of Arts and Science.

One bursary of $100 is open each year to "young men and women of promising abilities but of straitened circumstances in Arts and Science or Engineering."

For the first twenty-five years students of Scottish extraction will be given the preference (1923-1947).

*THE OTTAWA VALLEY BURSARIES.—These two bursaries are:—

1. The P. S. Ross Bursary, of the value of $100, founded by Dr. P. D. Ross, B.A.Sc., LL.D., in memory of his father, the late Mr. P. S. Ross.

2. The Ottawa Valley Graduates' Society Bursary of the value of $75.

These bursaries are given through the Ottawa Valley Branch of the Graduates' Society and are open only to bona fide residents of the Ottawa Valley. The winners are selected by the University from candidates who have written (1) The McGill Junior Matriculation Examination or (2) The Quebec High School Leaving Examination or (3) The Ontario Middle School Examination or (4) The McGill Senior Matriculation or (5) The Ontario Upper School Examination.

Applications must reach the Registrar's Office before 1st September.

**Tenable also at Macdonald College.*

CANADIAN PACIFIC RAILWAY SCHOLARSHIPS.—Scholarships covering one year's tuition in the Faculty of Arts and Science and four in Chemical, Civil, Mechanical, or Electrical Engineering, or five years in the School of Architecture, or four years' tuition in the Arts courses of the Faculty of Arts and Science, or in the School of Commerce, or four years in the School of Household Science, Macdonald College, are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age, as well as to minor sons and daughters of employees. The method of award is that of the University Entrance Scholarships described on page 177, candidates being required to submit:

(*a*) Their complete High School record,

(*b*) their marks or grades in any recognized matriculation or school-leaving examination,

(*c*) confidential letters from their school principals.

Forms of eligibility and full particulars as to the number of scholarships available, etc., may be obtained from Mr. F. J. Curtis, Staff Registrar and Secretary, Pension Department, C.P.R. Offices, Montreal. Applications, on forms obtainable from the Registrar's Office, accompanied by statements of eligibility from Mr. Curtis, must reach the Registrar's Office before 1st July.

THE SIDNEY J. HODGSON SCHOLARSHIPS.—Two scholarships, of approximate values $200 and $150 respectively, were founded by Arthur J. Hodgson, Esq., in memory of his son, Sidney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. They are open to pupils of Westmount High School who have been in attendance for at least one year, and are awarded on the result of the June Matriculation Examinations. The $200 Scholarship is tenable in the Faculty of Engineering and is awarded to the pupil obtaining the highest percentage in the Senior Matriculation subjects required for admission to that faculty; the $150 Scholarship is tenable in the Faculty of Arts and Science and is awarded to the pupil obtaining the highest percentage in the Junior Matriculation subjects required for admission to that faculty.

SCHOLARSHIP GRANTED BY THE GRADUATES' SOCIETY OF THE DISTRICT OF BEDFORD.—This scholarship, tenable in the Arts Division of the Faculty of Arts and Science, has an approximate value of $140 and is awarded annually to a "matriculated student in Arts and Science, proceeding to the degree of B.A., whose parents reside in the District of Bedford and whose candidature has been approved by a committee of the Society."

NARCISSA FARRAND (MRS. N. PETTES) SCHOLARSHIP.—This scholarship, of not less than $300 ($150 for two years), founded by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., and endowed by them with the sum of $7,000 out of the Narcissa Farrand Fund, is awarded annually to the candidate from the Eastern Townships who obtains the highest marks at the Arts and Science Matriculation Examination in June, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination.

THE GRACE FAIRLEY TRAFALGAR SCHOLARSHIP.—Founded in 1913 by certain friends and former pupils of the late Miss Grace Fairley, to signalize her long and faithful service to education as head of the Trafalgar Institute. It is of the value of $100, is tenable for one year only, and is awarded annually to the student of Trafalgar Institute who obtains the highest marks in the June Matriculation Examination and enters the Faculty of Arts and Science.

*THE ISABELLA C. MACRAE SCHOLARSHIP.—This scholarship of $125 is open to residents of Maxville, Ont., who have satisfied the requirements for entrance to McGill University. Should there be no successful applicants from this locality for six years, the scholarship will subsequently be open to any resident in Ontario.

ROYAL VICTORIA COLLEGE ENTRANCE SCHOLARSHIP (see page 191).

*THE CHRISTIE-STORER CHAPTER SCHOLARSHIP.—A scholarship of the value of $150 endowed by the above-named Chapter of the I.O.D.E, in memory of the men of St. Lambert who fell in the Great War, 1914-1918. is awarded annually to the pupil of St. Lambert High School who stands highest in the June Matriculation Examination each year, provided that the pupil's aggregate is at least 700 marks out of a possible 1,000.

THE UNITED THEOLOGICAL COLLEGE BURSARIES.—The Board of Governors of the United Theological College offers bursaries to be used towards the payment of fees of undergraduates in Arts and Science who are registered at this College as in training for the study of theology with a view to the Christian Ministry and who have passed with credit the sessional examinations. For particulars, application should be made to the Principal, 3506 University Street, Montreal.

PRESBYTERIAN COLLEGE SCHOLARSHIPS.—The Board of Management of the Presbyterian College offers a number of scholarships for the payment of fees of undergraduates in Arts and Science who are registered at the Presbyterian College as in training for the study of theology with

**Tenable also at Macdonald College.*

a view to the Ministry and who have creditably passed the sessional examinations. For further particulars, application should be made to the Principal, the Presbyterian College, 3485 McTavish Street, Montreal.

University Bursaries (see page 175).

*Khaki University and Y.M.C.A. Memorial Scholarship Fund (see page 183).

*Leonard Foundation Scholarships (see page 183).

Women Associates of McGill Bursary (see page 184).

*Tenable also at Macdonald College.

III. SCHOLARSHIPS, BURSARIES, LOAN FUNDS, MEDALS AND PRIZES OPEN TO UNDERGRADUATE STUDENTS REGISTERED IN THE UNIVERSITY

A. OPEN TO STUDENTS IN ALL FACULTIES

UNIVERSITY BURSARIES.—The University has established a number of bursaries open to students in all faculties and schools. The general regulations governing the award of these are stated on page 175. Application must be made on a special form and forwarded through the dean of the applicant's faculty or the director of his school. Students entering the University apply through the Registrar's office. The forms may be obtained from the Registrar's Office.

*BNAI BRITH BURSARIES.—Three bursaries of $100 each for the 1940-41 session have been given to the University by the Mount Royal Lodge of Bnai Brith. These bursaries are open to men and women students in any faculty. Need and scholarship will determine the award. Applications in writing must reach the Registrar before the end of June, 1940.

*KHAKI UNIVERSITY AND Y.M.C.A. MEMORIAL SCHOLARSHIP FUND.—This fund amounts at present to $5,800. The interest is awarded in scholarships by the Scholarships Committee subject to the following two conditions:

(i) that the scholarships may be held by undergraduates only.

(ii) that the preference is given to sons and daughters of soldiers who served in the Great War.

*LEONARD FOUNDATION SCHOLARSHIPS.—The Leonard Foundation created in 1916 by the late Colonel Reuben Wells Leonard and Mrs Leonard offers each year a number of scholarships tenable at schools, colleges, and universities in Canada, approved by the Foundation.

The scholarships are open to men and women. A student to be eligible must be "a British subject, of the white race, of the Christian Religion in its Protestant form, and of the full age of fourteen years."

The amount of the award will vary with the need of the winner.

*These awards are also tenable at Macdonald College.

Sons and daughters of the following are given preference in the selection of scholars:

(a) Clergymen, (b) School Teachers, (c) Officers, Non-Commissioned Officers and Men, whether active or retired, of His Majesty's naval, military, or air forces, (d) Graduates of the Royal Military College, (e) Members of the Engineering Institute of Canada, (f) Members of the Mining and Metallurgical Institute of Canada.

The University is willing to endorse and forward with its recommendation applications of any candidates who may wish to apply through the University and are approved by it.

Such candidates must make their applications on forms to be obtained from the Registrar's Office and must return these to the Registrar before the 15th March, 1941.

A booklet giving further particulars may be consulted in the Registrar's Office.

Women Associates of McGill Bursary.—A bursary of approximately $125 is available each year to men and women students in any Faculty. Scholarship and need will determine the award. The winner will be chosen by the Executive of the Women Associates of McGill from a list of candidates recommended by the Scholarships Committee and selected from the applicants for University bursaries. (See page 175).

PRIZES

Chester Macnaghten Prize.—This prize, which may be divided, has at present a value of approximately $70. It is offered annually for the best piece of creative writing in English submitted by a student of the University. The work submitted may be fiction, drama, essay, etc., and may be in prose or verse. Compositions that have appeared in print are not ineligible provided they have been published since 1st March, 1940. Compositions must be typed and must reach the Registrar before the 1st March, 1941.

Neil Stewart Prize.—An annual prize of $20 in the Hebrew Language and Literature, established by Mr. Neil Stewart of Vankleek Hill in 1878, is open to students in the University and in the affiliated Theological Colleges.

LOAN FUNDS

Applications for loans should be made through Deans of Faculties or Directors of Schools.

University Loan Fund.—A Student Loan Fund has been established by the University to assist needy students in all Faculties. Loans are made normally only to students in upper years (see page 176), with good academic standing.

ONTARIO GRADUATES' SOCIETY LOAN FUND.—This loan fund open to students in all Faculties has been established by the Ontario Branch of the Graduates' Society.

COMMERCIAL SOCIETY LOAN FUND.—For students in Commerce (see page 193).

THE "CLASS OF 1899 FUND".—For students in Engineering (see page 197).

THE GEORGE HENRY FROST FUND.—For students in Engineering (see page 197).

THE WADDELL LOAN FUND.—For students in Engineering (see page 197).

THE CANADIAN INSTITUTE OF MINING AND METALLURGY LOAN FUND.—For students in Engineering (see page 198).

ROYAL VICTORIA COLLEGE LOAN FUND.—For women students in the third and fourth years (see page 192).

ROYAL VICTORIA COLLEGE ALUMNAE SOCIETY LOAN FUND.—For women students (see page 192).

B. OPEN TO STUDENTS IN THE FACULTY OF ARTS AND SCIENCE

For details of Entrance Scholarships see pages 177 *and* 178.

For scholarships open to women only see page 191.

For Scholarships, Bursaries and Loan Funds open to undergraduates in all Faculties see page 183.

For awards open to Graduate Students see page 203.

GENERAL REGULATIONS IN ARTS AND SCIENCE

1. Only students in regular undergraduate standing are eligible for scholarships.

2. Scholarships will be awarded only if an adequate standard is attained.

3. If in any college year there is not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another year.

4. In order to retain his scholarship a successful candidate must proceed regularly with his college course to the satisfaction of the Faculty.

5. The annual income of the scholarships will be paid in two instalments. viz.:—In October and February, about the 20th of each month.

SECOND YEAR SCHOLARSHIPS

GROUP I.

Six scholarships usually of a minimum value of $100 each are offered to students advancing from the first to the second year for general proficiency in particular subjects of study. The awards will be made on the basis of the students' complete academic records and on recommendations from the departments in which they have taken their courses.

GROUP II.

The following scholarships are also offered, according to the terms indicated, to students advancing from the first to the second year.

THE CHARLES ALEXANDER SCHOLARSHIP, established in 1870 by Charles Alexander, "for the encouragement of the study of Classics and other subjects." Value $100.

THE JANE REDPATH EXHIBITION.—Founded by the late Mrs. Redpath, for the maintenance of an exhibition in Arts and Science. It is awarded on the result of the sessional examinations of the First Year to the student who makes the highest average on the year's work. Value $100.

THE BARBARA SCOTT SCHOLARSHIP.—Founded by the will of the late Barbara Scott to form an annual scholarship for the student "excelling in Classics in the First Year." Value $80.

THE MARGARET JANE ALLAN SCHOLARSHIP.—This scholarship, of $200, was established in 1929 by a bequest to the Royal Victoria College from Mrs. Agnes W. Allan. It is awarded each year to the woman student in either the B.A. or the B.Sc. courses in Arts and Science who obtains the highest standing in the sessional examinations of the First Year.

SCHOLARSHIPS TENABLE IN THE SECOND, THIRD OR FOURTH YEARS

GROUP III.

SIR WILLIAM MACDONALD SCHOLARSHIPS.—Six scholarships of $125 each are open to men students in the Second, Third, and Fourth Years for the session 1940-41.

THE SIR WILLIAM DAWSON SCHOLARSHIP.—Given by the New York Graduates' Society; value $60. Open also to students in Engineering.

THE DR. BARCLAY SCHOLARSHIP.—Awarded in the Classical Department, value $50.

THE REFORD SCHOLARSHIP.—The interest on this fund, amounting to about $200 per annum, will be equally divided each year and placed at the disposal of the Departments of English and Philosophy.

THE HOUSTON SCHOLARSHIP.—Founded by the will of Thomas Houston, to establish a scholarship for French students studying for the ministry of the Presbyterian Church or the United Church of Canada. It is open only to undergraduates in the Faculty of Arts and Science under the above restriction and is awarded on the result of the sessional examinations without regard to year. The value is about $70.00.

PETERSON MEMORIAL SCHOLARSHIP IN CLASSICS.—Founded in memory of Sir William Peterson, Principal of McGill University from 1895 to 1918, by his son, W. G. Peterson, M.A. This scholarship of the total value of $400 ($200 a year for two years) is open to students in any year. The winner is nominated by the Faculty of Arts and Science.

ABBOTT SCHOLARSHIPS (see page 199).

THE MAJOR HIRAM MILLS SCHOLARSHIP.—This scholarship, of the value of $120 is open to students in any of the biological sciences including Anatomy, Bacteriology, Biochemistry, Botany, Genetics, Physiology, and Zoology. It is open to both men and women.

THIRD YEAR SCHOLARSHIPS

GROUP IV.

Eight or more scholarships usually of a minimum value of $100 each are offered to students advancing from the second to the third year in both the General Course and the Honours Courses*, on the basis of academic record and recommendations from departments.

*The subjects of study for Honours Courses are as follows:—Bacteriology, Biochemistry, Biological Sciences, Botany, Chemistry, Latin, Greek, Economics, Political Science, English, French, Geology, German, History, Mathematics, Philosophy, Physics, Physiology, Psychology, Sociology, Zoology, and combined courses in two of the above subjects.

GROUP V.

The following scholarships are also offered, according to the terms indicated, to students advancing from the second to the third year.

ROBERT BRUCE SCHOLARSHIP.—From a fund, created by the will of the late Robert Bruce, of Quebec City, one scholarship of annual value of $75, tenable for two years, will be awarded for high standing in the examinations at the end of the Second Year.

THE CHARLES WILLIAM SNYDER MEMORIAL SCHOLARSHIP.—This scholarship, founded by L. P. Snyder, Esq., in memory of his son, Charles William Snyder, a student of First Year Arts, who was killed in the Battle of Sanctuary Wood on June 2nd, 1916, is of the value of $250. It is awarded annually on the results of the examinations in English and Economics of the Second Year, and is subject to the condition that the

holder take an Honours Course in English, with Economics as a minor subject in his Third Year, or the Honours Course in English and Economics. It is open to male students in the Faculty of Arts and Science professing the Christian religion.

THE ALEXANDER MACKENZIE SCHOLARSHIPS.—One scholarship of the value of $215 is awarded annually on the results of the honour examinations of the Second Year in Political Science and is open only to a student who has completed the work of that year. Tenure of the scholarship is conditional upon the holder's taking the honour work in Political Science of the Third Year. (See also Group VI).

THE HANNAH WILLARD LYMAN MEMORIAL SCHOLARSHIP of the value of $80 is awarded annually to a woman student of the third or fourth year.

DELTA PHI EPSILON SORORITY BURSARY.—This bursary, founded by the Delta Phi Epsilon Sorority in memory of Edith Silver, is of the value of $100 and is open to students entering the Third Year of the Faculty of Arts and Science.

For other third year scholarships see also Group III.

FOURTH YEAR SCHOLARSHIPS

GROUP VI.

Students advancing to the Fourth Year who have distinguished themselves in the general course or in honours courses may be recommended to Senate by the Faculty for the renewal of a scholarship previously held or for the award of a University Scholarship.

THE JAMES DARLING MCCALL SCHOLARSHIP.—This scholarship was founded by J. T. McCall, Esq., in memory of his son, James D. McCall, B.Sc., who was drowned shortly after the war, in which he served with distinction. This scholarship is awarded each year to a male student of the Fourth Year professing the Christian religion, who is taking honours in English or in Philosophy or in both these subjects. It is of the value of $250.

THE ALEXANDER MACKENZIE SCHOLARSHIPS.—One scholarship of the value of $215, is awarded annually on the results of the honour examinations of the Third Year in Political Science and is open only to a student who has completed the work of that year. Tenure of the scholarship is conditional upon the holder's taking the honour work in Political Science of the Fourth Year (see also Group V).

For other fourth year scholarships see Group III and Group V.

MEDALS IN ARTS AND SCIENCE

The following medals are awarded to the graduating students who stand highest in the First Class Honours List of the subjects named, provided the Faculty so recommends to Senate:—

The Henry Chapman Gold Medal, for Classical Languages and Literature.

The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy.

The Shakspere Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal, for Biology.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Governor-General's Silver Medal awarded to the student standing highest among those graduating "with great distinction" in the general course.

The Lieutenant-Governor's Silver Medal awarded to the student who stands second among those graduating "with great distinction" in the general course.

The Allen Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her son, the late Allen Oliver, B.A., M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916).

The Lieutenant-Governor's Silver Medal, in History.

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of French Language and Literature.

If there is no candidate for any medal, or if none of the candidates fulfils the required conditions, the medal is withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

PRIZES IN ARTS AND SCIENCE

Annie Macintosh Prize.—The income of the sum of $1,145 ($425 of which was subscribed by the pupils and friends of the late Miss Annie Macintosh, and $618.97 bequeathed by the late Miss I. G. Macintosh) is offered as a prize or prizes to students of the Royal Victoria College in such subject or for such work as the Faculty may determine.

PENHALLOW PRIZE IN BOTANY.—An annual prize of $25, endowed by the Arts Undergraduate Society in 1911, is awarded to the graduating student whose complete record shows the highest first class standing in Botany. At least 4 full courses in the subject must have been taken, and Honours students will receive preference.

HENRY CHAPMAN PRIZE.—A book prize of the value of $20 is given in modern languages (excluding English), or in Hebrew.

THE CHESTER MACNAGHTEN PRIZE (see page 184).

THE CHERRY PRIZE.—This prize of books, founded by Wilbur H. Cherry, Arts 1907, and Anna Cherry, Arts 1918, in memory of their father, William Cherry, Med. 1869, and of their brother, William McFie Cherry, Arts 1911, is awarded annually by the Department of Economics and Political Science to the student who is, in the opinion of the Department, deserving of such recognition.

PETERSON MEMORIAL PRIZE IN LITERATURE.—This prize, founded by W. G. Peterson, M.A., in memory of his father, Sir William Peterson, Principal of McGill University from 1895-1918, is of such value as may be determined from time to time and is awarded to the undergraduate, or graduate, student who in addition to having achieved distinction in English Literature has given evidence of creative literary ability.

THE DORA FORSYTH PRIZE.—An annual prize amounting to the interest annually on $1,000 bequeathed by the late Miss Jeanie Forsyth for English Literature. This prize is open to women students only and is awarded to a candidate recommended by the Department of English Language and Literature and approved by the Faculty of Arts and Science.

FANTHAM MEMORIAL PRIZE IN ZOOLOGY.—This prize of $50, endowed by Dr. Annie Fantham in memory of her husband, Professor H. B. Fantham, late Strathcona Professor of Zoology and Head of the Department, is awarded annually to the graduating student who has taken the full honours course in Zoology and who ranks highest of those obtaining first class honours in this subject. The prize is open to men and women.

MADELENE HODGSON PRIZE IN HISTORY.—An annual prize of $15 endowed by the Imperial Order Daughters of the Empire in recognition of the work done by Mrs. W. C. Hodgson as President of the Provincial Chapter of Quebec. The prize is awarded to the Third Year Honour student in History who in the opinion of the Department of History has done the most outstanding work in this subject.

HISTORICAL SOCIETY'S PRIZE.—This prize is endowed by a fund belonging to the Historical Society. The award is made jointly by the Executive of the Historical Society and the Chairman of the Department

of History to the male undergraduate in the First Year who has shown the greatest promise in History and intends to read for Honours in this subject.

ANNE MOLSON PRIZE IN CHEMISTRY.—A prize of $100 awarded annually to the student with the highest record among those graduating with First Class Honours in Chemistry.

PRIZES IN BOTANY AND ZOOLOGY.—A sum of $50 is awarded annualy as a prize or prizes in the Departments of Botany and Zoology for original summer collections. Candidates should consult these Departments concerning the collections to be made.

ETHEL WALKEM JOSEPH PRIZE.—The Wolfe and Montcalm Chapter of the Imperial Order of Daughters of the Empire has endowed an annual prize in the Department of Education as a tribute to Mrs. Henry Joseph, Regent of the Chapter.

For awards open to graduates see page 203.

BURSARIES

LOGAN BURSARIES.—A part of the interest of the Logan Medal Fund, amounting to about $200 a year, may be awarded upon the recommendation of the Department of Geological Sciences to undergraduate or graduate students in that department.

Applications should be made in writing to the Chairman of the Department of Geological Sciences before the 31st August.

C. OPEN TO STUDENTS OF THE ROYAL VICTORIA COLLEGE

ENTRANCE SCHOLARSHIPS

ROYAL VICTORIA COLLEGE ENTRANCE SCHOLARSHIPS.—Two scholarships, open to women only and conditional on residence in the Royal Victoria College, are offered each year, one of the value of $200 and one of $100. These are awarded on the result of the McGill Junior Matriculation or some equivalent examination.

ADDITIONAL SCHOLARSHIPS

For a statement of the scholarships, bursaries, and loan funds open to women students of the University, see pages 177, 178, 183, 185.

RESIDENT BURSARIES.—In addition to these, four resident bursaries in all, of the value of $200 each, are available for outstanding students of the second, third and fourth years who may be nominated by the Warden. In exceptional cases one or more of these may be awarded to first year students.

Loan Fund.—There is also a loan fund available for students of the third and fourth years, who have shown by their work in the first two years that they are qualified to proceed.

SPECIAL SCHOLARSHIPS ADMINISTERED BY A COMMITTEE OF THE ALUMNAE SOCIETY

Ethel Hurlbatt Scholarship.—A Scholarship of the annual value of $100 to be known as the Ethel Hurlbatt Scholarship, in memory of the late Dr. Ethel Hurlbatt, a former Warden, has been founded by the Alumnæ Society and will be awarded annually to a distinguished student of the 2nd, 3rd or 4th year.

The Local Council of Jewish Women of Montreal offers an annual scholarship of $100 to be given to a deserving student of the College in need of this financial assistance, the award to be made by the Scholarship Committee of the Alumnæ Society.

Susan Cameron Vaughan Scholarship.—A scholarship of the annual value of $100 to be known as the Susan Cameron Vaughan Scholarship in honour of Mrs. Walter Vaughan, retired Warden, has been founded by the Alumnae Society and will be awarded annually to a distinguished student of the 2nd, 3rd, or 4th year.

The Bnai Brith Mount Royal Women's Auxiliary No. 257 offers an annual bursary of $100 to be given to a deserving student of the college in need of this financial assistance, the award to be made by the Scholarship Committee of the Alumnae Society.

Alumnae Society Bursaries and Loans.—In addition to the above, a limited number of bursaries and loans are offered by the Alumnae Society through its Scholarship Committee.

Students interested in bursaries and loans should consult the Warden before the opening of the Session.

D. OPEN TO STUDENTS IN THE SCHOOL OF COMMERCE

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

SCHOLARSHIPS AND PRIZES

The F. W. Sharp Prize in Accountancy and Mathematics.—This will be awarded at the end of the Fourth Year to the best student in Accountancy, Business Organization and Mathematics. Value $50.00.

Joseph H. Jacobs Prize.—The sum of $650.00 was received from the executors of the estate of the late Joseph H. Jacobs. The annual revenue from this bequest, which is approximately $25, will be awarded as a prize for Second Year Accountancy.

Chester Macnaghten Prize (see page 184).

MEDALS

THE CHANCELLOR'S MEDAL.—A gold medal is offered by Sir Edward Beatty, Chancellor of the University, to the student in the School of Commerce who attains the highest distinction in Economics. At present, it is awarded on the basis of the aggregate marks for the three full year courses (21, 22, & 25).

LIEUTENANT-GOVENROR'S MEDALS.—A silver medal and a bronze medal have been offered to the School of Commerce by his Honour the Lieutenant-Governor of the Province of Quebec, the silver medal for the student with the best average, throughout his four years of study, in Mathematics, Accountancy, Business Organization and Commercial Law; the bronze medal for the one who has the best average, throughout the four years of study, in the French and Spanish languages.

LOAN FUNDS

COMMERCIAL SOCIETY LOAN FUND.—A fund has been established by the Commercial Society to be known as "The Commercial Society Loan Fund," for the purpose of aiding each year one or more students of the School of Commerce who are entering their fourth year, to complete their course, Loans from this Fund are repayable within two years after graduation. Application should be made to the Dean of the Faculty of Arts and Science.

OTHER LOAN FUNDS (see page 175).

E. OPEN TO STUDENTS IN THE FACULTY OF ENGINEERING

(Including Architecture)

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

ENTRANCE SCHOLARSHIPS

WORKMAN STUDENTSHIP—The University accepts one nomination each year for a full course in Mechanical Engineering from the executors of the estate of the late Thomas Workman, provided the student nominated

(1) is a resident of Quebec,

(2) has obtained in the examinations qualifying for admission to the University the standard required by the Scholarships Committee for University Entrance Scholarships or Bursaries.

For other entrance scholarships see pages 177 and 178.

AWARDED ON THE RESULTS OF THE SESSIONAL EXAMINATIONS OR FOR SPECIAL THESES

British Association Second Year Prizes.—Two British Association prizes of $40 and $20, at the end of the Second Year, to the students obtaining the highest, and the second highest aggregate marks, respectively, in the sessional examinations in Algebra, Calculus, and Mechanics of the Second Year.

Scott Exhibition.—A Scott exhibition of $40, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and a British Association prize of $20, to the students obtaining the highest, and the second highest aggregate marks, respectively, in the sessional examinations in Mathematics, Descriptive Geometry, and Physics of the First Year.

Tighe Prize.—A prize of $50, presented by Mr. James L. Tighe, B.A.Sc., for research work in Hydraulics.

Anglin-Norcross Prize.—A prize of $25, presented by the Anglin-Norcross Corporation Limited, to the student obtaining the highest marks in Architectural Drawing in the School of Architecture.

Anglin-Norcross Prize.—A prize of $25, presented by the Anglin-Norcross Corporation Limited, to the student obtaining the highest marks in Architectural Engineering in the School of Architecture.

The Louis Robertson Prize.—Founded by Mr. and Mrs. John A. Robertson, in memory of their son, John Louis Armour Robertson, who was killed in the Great War on July 18th, 1916, to be awarded in the form of books to the undergraduate student who ranks highest in Design in the Final Year of the School of Architecture.

Turner Prize.—A prize of $25, presented by Professor P. J. Turner, to the student obtaining the highest marks in Building Construction of the Second Year course in Architecture.

Montreal Light, Heat and Power Prizes.—Prizes amounting to $200, are given by the Montreal Light, Heat & Power Consolidated to Fourth Year students in the Department of Electrical Engineering.

The following prizes are offered for the best summer essays:—

Hersey Prize.—To students in Metallurgical Engineering, a prize of $25, presented by Milton L. Hersey, Esq., D.Sc.

Porter Prize.—To students in Mining Engineering, a prize of $25, presented by Dr. J. B. Porter.

Engineering Institute of Canada Prizes.—The Engineering Institute of Canada offers each year a prize of books or instruments to the value of $25 for the best paper in any branch of engineering received from an English-speaking Student or Junior of the Institute in the Pro-

vince of Quebec. This prize is known as the Phelps Johnson Prize; another of the same value, the Ernest Marceau Prize, is awarded for the best paper in French. Similar prizes are open to those located in other provinces. The successful papers become part of the literature of the Institute and place the authors in prominent touch with the engineering profession. Further particulars may be obtained from L. Austin Wright, General Secretary, 2050 Mansfield Street, Montreal.

ENGINEERING INSTITUTE OF CANADA PRIZE.—The Engineering Institute of Canada also offers each year a prize of $25 to the student of the Third Year whose standing, considered in combination with his activities in student engineering organizations, is, in the opinion of the Faculty, most meritorious.

CANADIAN INSTITUTE OF MINING AND METALLURGY PRIZES.—Three prizes, one of $25 and the President's gold medal, and two of $25 each, are offered annually for the best papers submitted by student members to the Canadian Institute of Mining and Metallurgy.

UNDERGRADUATE SOCIETY'S PRIZE.—The sum of $50 has been voted by the Undergraduate Society of the Faculty of Engineering, to be given as prizes for the best summer essays submitted by students. $25 is awarded for the best essay, $15 for the second and $10 for the third.

SIR WILLIAM DAWSON SCHOLARSHIP.—A Sir William Dawson Scholarship, given by the New York Graduates' Society; value $60; open also to students in Arts and Science (see page 186).

SOCIETY OF CHEMICAL INDUSTRY PRIZE.—A prize of $50 is offered by the Montreal Section of the Society of Chemical Industry (Canadian Section) for an original essay on a chemical subject. Undergraduate students, other than those in their final year, are eligible to present papers. Further particulars may be obtained from the Registrar's Office.

AMERICAN SOCIETY OF METALS PRIZE.—A prize in selected metallurgical books to the value of $10.00 is offered, by the Montreal Chapter of the American Society for Metals, to the student graduating in Metallurgical Engineering who obtains the highest mark, provided he obtains honours standing in the subject sof Metallography and Thesis combined.

THE ROBERT FORSYTH PRIZE IN CIVIL ENGINEERING.—Under the will of the late Miss Jeanie Forsyth the interest on $1000 is awarded each year, if the examiners so recommend, to a "worthy and needy" student of the graduating class who secures high standing in the subjects of Theory of Structures and Strength of Materials.

CHESTER MACNAGHTEN PRIZE (see page 184).

AWARDED AT THE DISCRETION OF THE FACULTY

THE HON. ROBERT JONES BURSARY.—Of the value of $120 per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts and Science or Engineering."

Application should be made through the Dean of the Faculty. In awarding the bursary the standing of the student in the entrance examination is considered, and the scholarship is not continued if the standing of the student at any time proves unsatisfactory.

THE BAYLIS SCHOLARSHIP.—Founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of $100, is awarded to some student entering the Second Year who is in need of financial assistance. The scholarship will be continued during the Third and Fourth Years, if the standing of the student continues to be satisfactory.

Application should be made through the Dean of the Faculty.

DOUGLAS TUTORIAL BURSARIES.—The late Dr James Douglas, who was a member of the Board of Governors, provided for twelve or more tutorial bursaries of $80 per annum in the Faculty of Engineering. In assigning these, the circumstances of the applicants as well as their academic standing are considered. These bursaries carry the obligation of giving tutorial instruction equivalent to one evening a week. Students in the Third and Fourth Years of Engineering are eligible.

H. M. MACKAY MEMORIAL SCHOLARSHIP.—This scholarship will probably be awarded during the summer of 1940 to a student of British citizenship who has then completed the First Year in Engineering and intends to enter the Second Year in September 1940. A committee appointed by the Faculty selects the scholar, having in mind the results of the First Year sessional examinations, general character, industry, and other qualities desirable in an engineer. The amount of the scholarship for 1940-41 will be $135. Payment is withheld if the scholar's progress is unsatisfactory. If no candidate of sufficient merit applies, the scholarship is not awarded. Written applications must be made to the Dean's Office on or before May 31st, 1940.

THE JENKINS BROS., LTD., SCHOLARSHIP.—Supported by Messrs. Jenkins Bros., Ltd., and having an annual value of $200, is open to all Engineering students entering the Fourth Year and is awarded on the basis of academic standing and personality. Written application should be made to the Dean's office on or before May 31st, 1940.

THE NEVIL NORTON EVANS SCHOLARSHIP.—This Scholarship of $100 a year was established in 1937 by graduates of the Faculty of Applied Science (Engineering), and is open to students of the Faculty of Engineering who show outstanding ability in Chemistry. The award will be made by the Faculty of Engineering and the Department of Chemistry. No application is required.

BURSARIES

THE ANGLIN BURSARY.—Of the value of $200, will be given for the 1940-41 session by Mrs. Anglin in memory of her husband, the late Mr. J. P. Anglin, B.Sc, 1906.

For information concerning bursaries open to undergraduates in all Faculties see page 183.

MEDALS

BRITISH ASSOCIATION MEDAL.—This medal is open for competition to students of the graduating class in each of the Engineering courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations. The British Association Medals were founded by the British Association for the Advancement of Science in commemoration of its meeting held in Montreal in 1884.

CANADIAN INSTITUTE OF MINING AND METALLURGY MEDAL.—A gold medal and two prizes are offered by the Canadian Institute of Mining and Metallurgy. For further particulars, see page 195.

THE LIEUTENANT-GOVERNOR'S SILVER MEDAL.—Awarded to the student ranking highest in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

THE LIEUTENANT-GOVERNOR'S BRONZE MEDAL.—Awarded to the student obtaining the second place in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

THE ROYAL ARCHITECTURAL INSTITUTE OF CANADA MEDAL.—A medal is offered annually to the student who has completed the entire course at a recognized School of Architecture, who has obtained high marks throughout his course, and who gives promises of being an architect of distinction after graduation. British subjects only are eligible for this award.

LOAN FUNDS

THE "CLASS OF 1899 FUND".—Established by the "Applied Science" Class of 1899, to aid each year one or more students who, upon the completion of their Second Year, require assistance to enable them to finish their course. Loans from this fund are repayable after graduation. Applications should be made to the Dean.

THE GEORGE HENRY FROST FUND.—Founded by the late G. H. Frost, B.Sc. '60, to aid students who, when commencing the work of the second or a subsequent year in the Faculty of Engineering, require financial assistance. In making loans from this fund the academic standing of the applicants is considered. Applications should be made to the Dean.

THE WADDELL LOAN FUND.—Founded by J. B. Waddell, Esq., Loans are made under the same conditions as apply to the George Henry Frost Fund, except that the benefits are available to graduate students as well as to undergraduates. Applications should be made to the Dean.

THE CANADIAN INSTITUTE OF MINING AND METALLURGY LOAN FUND. —Founded by the Montreal Women's Auxiliary of that organization for the assistance of Engineering students in Mining, Metallurgy, Geology and allied subjects. Applications should be made to the Dean.

OTHER LOAN FUNDS (see page 185).

For awards open to Graduate Students see page 203.

F. OPEN TO STUDENTS IN THE FACULTY OF MEDICINE

For scholarships, bursaries, and loan funds open to undergraduates in all faculties see page 183.

MEDALS

THE HOLMES GOLD MEDAL, founded by the Medical Faculty in the year 1865, as a memorial of the later Andrew Holmes, Esq., M.D., LL.D., one time Dean of the Faculty of Medicine, is awarded to the student graduating with the highest aggregate number of marks in the different branches comprised in the medical curricuum.

The student who wins the Holmes Melal has the option of exchanging it for a bronze medal and the money equivalent of the gold medal.

THE WOOD GOLD MEDAL, founded by Casey A. Wood, M.D., LL.D., awarded to the student graduating with the highest aggregate number of marks in the clinical examinations of the Final Year. The winner of the Holmes Medal is not permitted to compete for this medal.

THE SUTHERLAND GOLD MEDAL, founded in 1878 by the late Mrs. Sutherland, in memory of her husband, Wiliam Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in Biochemistry, together with a creditable examination in the primary branches.

THE LIEUTENANT-GOVERNOR'S SILVER MEDAL, to be awarded to the student of the final year, who in the opinion of the Chairman of the Department of Public Health and Preventive Medicine, is most proficient in that subject.

THE LIEUTENANT-GOVERNOR'S BRONZE MEDAL, to be awarded to the student who obtains the highest standing in the Final Examination in Physiology.

PRIZES

THE JOSEPH HILS PRIZE. (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.)—A prize in books awarded to the student who obtains the highest number of marks in the subject of Pharmacology.

THE JOSEPH MORLEY DRAKE PRIZE. (Founded by the late Joseph Morley Drake, M.D.)—A prize in books, to be awarded to the student who obtains the highest number of marks at the Final Examination in Pathology.

PRIMARY PRIZE.—A prize in books awarded for the best aggregate standing in the subjects of the first division (Anatomy, Histology, Physiology, Biochemistry).

THE F. SLATER JACKSON PRIZE.—An annual prize of $50.00, founded by Mr. and Mrs. H. F. Jackson in memory of their son, the late F. Slater Jackson, M.D. The prize is awarded on the result of a special examination, written and oral, in Histology and Embryology.

THE ALEXANDER D. STEWART PRIZE.—An annual prize in books, founded by the late W. Grant Stewart (Arts 1885, Med. 1888) in memory of his brother, the late Alexander D. Stewart (Med. 1888), to be awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise his profession.

ROBERT FORSYTH PRIZE.—Under the will of the late Miss Jeanie Forsyth the interest on $1,000 is awarded each year to a student who, upon graduation, has shown particular ability in all branches of surgery.

THE JOHN MUNRO ELDER PRIZE.—An annual prize of $25.00 founded in 1935 by Aubrey H. Elder, Esq., K.C., in memory of his father, John M. Elder, M.D., C.M., sometime Assistant Professor of Surgery and Anatomy in the Faculty. The prize is awarded on the result of a special examination in Anatomy.

CAMPBELL HOWARD PRIZE IN CLINICAL MEDICINE.—An annual prize of $50 founded by Mrs. Campbell Howard, in memory of her husband, the late Dr. Campbell P. Howard, Professor of Medicine at McGill University. The prize is awarded to the student who shows the most consistent excellence in his written case reports in the subject of Clinical Medicine.

CHESTER MACNAGHTEN PRIZE (see page 184).

SCHOLARSHIPS

DR. MAUDE E. SEYMOUR ABBOTT SCHOLARSHIPS.—Established in 1938 by an anonymous donation of $10,000 in honour of Maude E. Seymour Abbott, B.A., M.D., F.R.C.P., (Canada), LL.D., (McGill), to commemorate her distinguished work in connexion with the history of Canadian medicine, the Sir William Osler Pathological Collection, and her outstanding research in congenital cardiac disease.

The revenue of this fund is used for the provision of a scholarship or scholarships to be awarded by the University to an undergraduate in the Faculty of Medicine or to an undergraduate in the Faculty of

Arts and Science who is preparing to enter Medicine. While men and women are both eligible for the awards, women candidates will be given the preference. The amount of the awards will vary according to the needs of the winners.

Applications in writing must reach the Registrar before the 30th June, 1941.

THE WALTER J. HOARE MEMORIAL SCHOLARSHIP.—This scholarship was endowed by the late Dr. Charles W. Hoare, a graduate of McGill University, in memory of his son, Walter J. Hoare, who was kiled in the Great War. It is open annually to pupils of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine. If there are no qualified candidates in this preferred class, the scholarship may be awarded to another candidate nominated by the Faculty of Medicine.

For awards open to Graduates in Medicine see pages 203 and 216.

G. OPEN TO STUDENTS IN THE FACULTY OF DENTISTRY

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

MEDALS AND PRIZES

THE MONTREAL DENTAL CLUB GOLD MEDAL AND A PRIZE IN BOOKS.—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the year.

THE COLLEGE OF DENTAL SURGEONS OF THE PROVINCE OF QUEBEC PRIZE:—A prize of twenty-five dollars awarded to the student registered in Quebec, obtaining the highest standing in the practical examinations of the Final Year.

THE LIEUT.-GOVERNOR'S SILVER MEDAL AND A PRIZE IN BOOKS.—Awarded to the student in the Final Year who stands second in the class. The standing is determined in a manner similar to that followed in the awarding of the Gold Medal.

THE LIEUT.-GOVERNOR'S BRONZE MEDAL AND A PRIZE IN BOOKS:—Awarded to the student obtaining the highest marks in written and practical subjects in the Third Year examinations.

The following prizes are given by The Mount Royal Dental Society:

FIRST AND SECOND YEAR PRIZES.—A prize in books is awarded to the student obtaining the highest standing at the sessional examinations.

CHESTER MACNAGHTEN PRIZE (see page 184).

H. OPEN TO STUDENTS IN THE FACULTY OF LAW

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

SCHOLARSHIPS AND PRIZES

THE "THOMAS ALEXANDER ROWAT SCHOLARSHIP".—Founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. The value of the scholarship is approximately $75. It is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in the session 1941-42.

THE "CHARLES ALBERT NUTTING PRIZE".—Founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother, Charles Albert Nutting K.C., B.C.L., who graduated from this Faculty in 1872. The value of the prize is the income from a capital sum of $1,000, and is approximately $40. It is awarded to the student in the first or second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

THE MONTREAL BAR ASSOCIATION PRIZE.—The Montreal Bar Association offers a prize of $50 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association a prize of $15 to the student who obtains the best marks in Civil Procedure in the Final Year.

THE "ALEXANDER MORRIS EXHIBITION".—This exhibition of the value of $50, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

THE ADOLPHE MAILHIOT MEMORIAL PRIZE.—This prize established by Mr. and Mrs. J. N. Mailhiot of Victoriaville, P.Q., in 1927, consists of a prize of law books to be given annually to a student selected by the Faculty usually, but not necessarily, in the graduating class.

CHESTER MACNAGHTEN PRIZE (see page 184).

MEDALS

THE "ELIZABETH TORRANCE GOLD MEDAL".—Founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

THE LIEUTENANT-GOVERNOR'S SILVER MEDAL.—Awarded to the student who stands highest in the Final Examination in Roman Law.

THE LIEUTENANT-GOVERNOR'S BRONZE MEDAL.—Awarded to the student who stands highest in the First Year course in Obligations.

No medals, prizes or scholarships will be awarded, if, in the opinion of the Faculty, there is no candidate of sufficient merit.

For awards open to Graduate Students see pages 203 and 208.

I. OPEN TO STUDENTS IN THE FACULTY OF MUSIC

THE SIR WILLIAM PETERSON MEMORIAL SCHOLARSHIPS.—Established in 1921 by the University and by friends, graduates and pupils of the Faculty of Music. The interest upon the original endowment of $6,055 is used to support two scholarships in Music as a memorial to the late Sir William Peterson.

For further details consult the Secretary of the Faculty.

THE SIR WILLIAM MACDONALD MEMORIAL SCHOLARSHIPS.—Established in 1922 by the University. The interest upon the original endowment of $6,000 is used to support scholarships in Music as a memorial to the late Sir William Macdonald.

For further details consult the Secretary of the Faculty.

ELLEN BALLON PIANO SCHOLARSHIP.—Founded in 1928 by a gift of $1,500 from Miss Ellen Ballon, a graduate of the Conservatorium. In making this award the Faculty takes into account the need as well as the ability of candidates.

For further details consult the Secretary of the Faculty.

UNIVERSITY BURSARIES.—Full-time students studying for the Licentiate in Music or for the Bachelor of Music degree are eligible for University Bursaries. For details see page 183.

J. OPEN TO STUDENTS IN THE FACULTY OF AGRICULTURE

I.O.D.E. BURSARY.—A bursary of $200 ($100 for 2 years) is offered by the Provincial Chapter of the Imperial Order Daughters of the Empire to the British student taking the highest marks in the final examinations of the Second Year.

K. OPEN TO STUDENTS IN THE SCHOOL FOR TEACHERS

I.O.D.E. BURSARY.—The Municipal Chapter I.O.D.E. offers a bursary of $350, tenable in the School for Teachers, Macdonald College. The award is made by a committee of the Municipal Chapter on the basis of scholarship and need.

CHRISTIE-STORER SCHOLARSHIP (see page 181).

L. OPEN TO STUDENTS IN THE FRENCH SUMMER SCHOOL

FRENCH SUMMER SCHOOL SCHOLARSHIPS.—Ten Resident Scholarships of the value of $90 each are offered to teachers and to students of colleges and universities who are qualified to enter the Advanced Section C. (See French Summer School Announcement.)

IV. GRADUATE FELLOWSHIPS, SCHOLARSHIPS AND MEDALS

For scholarships and bursaries open to students in all Faculties see page 183.

DEMONSTRATORSHIPS AND INSTRUCTORSHIPS.—In several Departments graduate students are eligible for demonstratorships and instructorships. Information concerning these may be obtained from the Chairman of the Department concerned.

A. FELLOWSHIPS AND SCHOLARSHIPS OPEN TO McGILL GRADUATES AND TO GRADUATE STUDENTS REGISTERED IN THE UNIVERSITY

OPEN TO GRADUATES IN ALL FACULTIES

THE McGILL DELTA UPSILON MEMORIAL SCHOLARSHIP.—Founded by the McGill Chapter of the Delta Upsilon Fraternity in memory of the members of that Chapter who gave their lives in the Great War. This scholarship is open to graduates of the University in all faculties. The Selection Committee will consider:—(*a*) The general scholarship of the candidate; (*b*) His need of financial assistance for further study; (*c*) The general usefulness to the community of the special branch of study he proposes to follow; (*d*) The likelihood that the candidate will reflect credit on the University. The present value of the scholarship is about $700.

Application should be made to the Registrar before April 1st.

PRIZES

CHESTER MACNAGHTEN PRIZE (see page 184).

OPEN TO GRADUATES IN ARTS AND SCIENCE

†THE MOYSE TRAVELLING SCHOLARSHIPS.—Two scholarships of the value of $1,250 each, tenable for one year, founded by the late Right Honourable Lord Atholstan, to commemorate the "splendid services of Dr. Charles E. Moyse, for forty-two years Professor of English, during sixteen of which he was Dean of the Faculty of Arts and Vice-Principal of the University."

These scholarships are awarded by the Faculty of Arts and Science, one for distinction in literary subjects, and the other for distinction in scientific subjects. If a deserving applicant in one of these divisions

†Not to be awarded until further notice.

is not forthcoming, both scholarships may be awarded to applicants who belong to the other. The holder must devote the period of the tenure of the scholarship to advanced study, preferably in a British or European university, but not to the exclusion of other universities.

Applications are to be made to the Dean of the Faculty of Arts and Science, before the first of April each year.

The Allen Oliver Fellowship.—This fellowship has been established by Mrs. Frank Oliver, of Edmonton, Alta., in "proud and loving memory of her son, the late Allen Oliver, M.C., B.A.,* Lieutenant, 26th Battery, C.F.A., who was killed in action at the Somme on November 18th, 1916." The fellowship is awarded annually to the student who stands highest in first class honours in the Department of Economics and Political Science at the final B.A. examination, and the holder is required to pursue his studies in Economics and Political Science in McGill University or elsewhere. The present value of the scholarship is about $400.

†The Guy Drummond Memorial Scholarship.—This scholarship, endowed by the late Guy M. Drummond, and tenable for one year, is awarded annually to a graduting student in the Department of Economics and Political Science. The value of the scholarship is the income derived from a capital sum of $45,190 to cover a year of study divided between Paris and McGill and leading to the M.A., or, in special circumstances, a whole academic year in Paris and then a year studying for the M.A. at McGill. The holder may attend the Graduate Faculty of McGill University for one year before or after his study in Paris, or may go to France in the summer following his appointment, attend the Ecole Libre from its autumn opening until the New Year, and then return to resident work at McGill, being eligible for the M.A. degree in May of that year.

The award is made by the University Scholarships Committee upon the recommendation of the Department of Economics and Political Science and the Department of French.

Alexander Mackenzie Felloswhip in Political Science.—This Fellowship, of the annual value of $600 is tenable by a graduate of any accredited university. Such tenure is conditional upon the acceptance by the Department of Economics and Political Science of the applicant as being entitled to admission to the Faculty of Graduate Studies and Research in the field of Political Science. A certain amount of tutorial and teaching work will be required of the holder of the fellowship.

---

*Lieut. Oliver was an honour graduate in 1915 in the Department of Economics and Political Science.

†Not to be awarded until further notice.

Under certain conditions, which may be ascertained in consultation with the Department of Economics and Political Science, this fellowship may be held for a second or third year.

Each candidate should send (i) a letter of application, (ii) a certified copy of his academic record, (iii) not more than three testimonials. These should reach the Registrar, McGill University, Montreal, before the 30th of April, 1941. There are no application forms.

THE PHILIP CARPENTER FELLOWSHIP founded in 1892 by a donation of $7,000 from Mrs. Philip P. Carpenter for "a post-graduate teaching fellowship or scholarship in Natural Science or some Branch thereof in the Faculty of Arts of McGill College."

THE LEROY MEMORIAL FELLOWSHIP IN GEOLOGY.—(See below).

THE DR. T. STERRY HUNT RESEARCH SCHOLARSHIP IN CHEMISTRY. (See below).

ADAMS SCHOLARSHIP IN GEOLOGY.—(See page 206).

SISCOE GOLD MINES SCHOLARSHIP.—(See page 210)

BURSARIES

LOGAN BURSARIES IN GEOLOGY.—(See page 191).

OPEN TO GRADUATES IN ENGINEERING

THE LEROY MEMORIAL FELLOWSHIP IN GEOLOGY.—This fellowship of $500, established by some friends of Captain O. E. LeRoy, (Arts, 1895), who was killed in the Battle of Passchendaele, in October, 1917, is awarded annually to a student who desires to proceed with post-graduate studies in Geology at McGill University. The recipient may be called upon to assist in the teaching work of the Department. The award is made by the Chairman of the Department of Geological Sciences in consultation with the Principal.

THE DR. T. STERRY HUNT RESEARCH SCHOLARSHIP IN CHEMISTRY.—This Scholarship of the value of $600 is open to graduates in Chemistry and Chemical Engineering who have completed the course for the degree of M.Sc., M.Eng. or Ph.D. and have shown high capacity for research. The holder may be required to assist in the Department as a demonstrator.

RESEARCH FELLOWSHIPS.—Two research and teaching fellowships have been established in the Department of Mining and Metallurgical Engineering—one of $600 endowed in memory of the late Sir William Dawson, one of $550 endowed by the late Dr. James Douglas. These fellowships are awarded annually if suitable candidates offer.

Dr. B. J. Harrington Bursary in Mining Engineering.—This bursary of approximately $150 a year, supported by graduates in Mining Engineering in memory of the late Professor B. J. Harrington, is awarded annually if a suitable candidate offers.

The John Bonsall Porter Scholarship.—This scholarship, founded by Dr. W. W. Colpitts (B.Sc., 1899), is open to graduate students proceeding to the degree of M.Eng. in Civil, Mechanical. or Electrical Engineering, preference being given to students in Civil Engineering. It is expected that the income of the scholarship for 1940-41 will be $200. Applications should be in the hands of the Dean of the Faculty of Engineering not later than July 30th, 1940. In the case of graduates of other universities these must be accompanied by certified statements of academic standing and letters of recommendation.

Adams Scholarship.—A scholarship of $300, presented by Professor F. D. Adams, will again be available in 1940-41 for a graduate student in the Department of Geological Sciences.

Siscoe Gold Mines Scholarship.—(See page 210).

Loan Fund

Waddell Loan Fund.—Loans from this Fund, which was founded by J. B. Waddell, Esq., may be made to graduate as well as undergraduate students in any Department of Engineering. Application should be made to the Dean of the Faculty of Engineering.

OPEN TO GRADUATES IN ARCHITECTURE

†The Hugh McLennan Memorial Scholarship.—Established by the Hon. John Stewart McLennan and Dr. Francis and Miss Isabela McLennan in memory of Hugh McLennan, son of the Hon. John Stewart McLennan, killed at the Battle of Ypres in 1915. The amount of this scholarship is $1,000. It will be awarded to the student graduating in Architecture who during his course has shown the greatest capacity in the solution of problems and who gives promise of creative ability.

OPEN TO GRADUATES IN MEDICINE

FELLOWSHIPS

The A. A. Browne Memorial Fund.—The sum of $10,000 has been received by the Faculty of Medicine of McGill University from the committee of the A. A. Browne Memorial Fund. This fund is used either for a fellowship to be known as the "A. A. Browne Memorial Fellowship", or for a grant to a department to provide technical assistance.

†Not to be awarded until further notice.

equipment, and supplies for medical research. The fellowship is open to graduates of any recognized Medical School and is for the advancement of medical science, special preference being given to the subjects of obstetrics and gynaecology.

THE JAMES DOUGLAS RESEARCH FELLOWSHIP.—The sum of $25,000 was donated by the late Dr. James Douglas, the proceeds to be devoted to co-ordinated research in the laboratories of pathology in or associated with the University.

THE JOHN MCCRAE FELLOWSHIP.—A fellowship of approximately $800, founded in 1918 as a yearly donation by Mr. H. J. Fuller, of New York, in memory of the late Lt.-Col. John McCrae, for the purpose of scientific research in Experimental Surgery. Established as a permanent fellowship in 1920 by Mr. Fuller and the Canadian Fairbanks-Morse Company.

THE CLARA LAW FELLOWSHIP, founded in 1927 by Mrs. J. R. Fraser for the furtherance of research in the laboratory of the Department of Obstetrics and Gynæcology, is of the value of $1,200 per annum.

THE DR. J. FRANCIS WILLIAMS FELLOWSHIP IN MEDICINE AND CLINICAL MEDICINE of $500, founded by the late J. Francis Williams, M.D., to be awarded on the result of a special examination open to students of the final year who have had a high general scholastic standing and who are approved by the Chairman of the Department of Medicine.

THE DR. J. H. B. ALLAN SCHOLARSHIP of $240, founded by bequest of Mrs. Agnes W. Allan, mother of Dr. J. H. B. Allan, to be awarded to the graduate of this Faculty who shall present the best essay written during his period of residency in one of the teaching hospitals connected with McGill University or within one year after the termination of such residency.

THE JAMES COOPER ENDOWMENT "for the Study and Teaching of Internal Medicine" was established by a bequest from the late James Cooper. The income from this fund will be used for fellowships or for grants to departments to provide technical assistance, equipment and supplies for medical research.

THE BLANCHE HUTCHINSON RESEARCH FUND was established by a bequest from the late Mrs. Frank L. Hutchinson. The income from this fund will be used for fellowships or for grants to departments to provide technical assistance, equipment, and supplies for medical research.

THE OSLER MEMORIAL SCHOLARSHIP.—This scholarship is awarded by the Canadian Medical Association every third year to a candidate nominated by the Faculty of Medicine "in order that such candidate may pursue studies to advance the knowledge of medicine and to im-

prove the teaching of clinical medicine". Candidates must be graduates of not more than ten years' standing and, other things being equal, preference will be given to a graduate of McGill University. The value of the scholarship to be awarded for the 1941-42 session will probably be approximately $900. Applications must be sent to the Dean of the Faculty of Medicine not later than the 31st of March, 1941.

CASGRAIN AND CHARBONNEAU AWARD.—An annual award of $500 given by the firm of Casgrain and Charbonneau for original work leading to improvement in the prevention or treatment of disease. Candidates must be graduates of McGill University or students in the Faculty of Graduate Studies and Research of McGill University. Applications should be made in writing to the Dean of the Faculty of Medicine before the 1st April, 1941.

OPEN TO GRADUATES IN LAW

†THE MACDONALD TRAVELLING SCHOLARSHIP.—This Scholarship was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is approximately $900. The scholar elected is required to pursue a year's study in the Law Faculty of a French University approved, in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class, not being a notarial student, who has obtained first or second class honours in the Final Examination and who would be unable without such financial help to spend a year in France. The Faculty interprets the will of the late Sir William Macdonald as intending that the Scholarship be awarded only to men students preparing for practice as advocates in the Province of Quebec.

THE EDWIN BOTSFORD BUSTEED SCHOLARSHIP.—Founded by the will of the late Mrs. Edwin Botsford Busteed and awarded to a student, chosen by the Faculty, in the graduating year who desires to carry out research after graduation on some subject connected with the law of Quebec. The value of the scholarship is the income from a capital sum of $6,000 and is approximately $240. The successful candidate, whether or not he registers for the degree of M.C.L., will be required to report progress at intervals during his tenancy of the scholarship, and to prepare a thesis on a subject approved by the Faculty.

†Not to be awarded until further notice.

OPEN TO GRADUATES IN AGRICULTURE

MACDONALD COLLEGE AGRICULTURAL ALUMNI ASSOCIATION GRADUATE SCHOLARSHIP.—In memory of graduates and undergraduates of the Faculty of Agriculture who died in service during the Great War, 1914-1918; created, in connection with the Centennial Campaign, 1920, through subscriptions of graduates, undergraduates, members of the staff and other friends, of a present value of $200 and available to any graduate in Agriculture of Macdonald College (McGill University) for graduate work in Agriculture at any college or university of recognized standing. The holder is chosen by a committee appointed by the executive of the Macdonald College Agricultural Alumni Association, and applications should be addressed to Mr. Emile A. Lods, General Secretary, Agricultural Alumni Association, Macdonald College, P.Q.

B. FELLOWSHIPS AND SCHOLARSHIPS OPEN TO GRADUATES OF McGILL AND OF OTHER UNIVERSITIES

†SCIENCE SCHOLARSHIPS GRANTED BY HER MAJESTY'S COMMISSIONERS FOR THE EXHIBITION OF 1851.—These scholarships, of at least £275 sterling a year, are tenable for two, or, in rare instances three years. They are limited, "to those branches of science, the extension of which is especially important to our national industries." The holder is required to devote himself to research, the particular nature of which must be approved by the Commissioners.

Three of these Scholarships which are tenable at any institution approved by the Commission are allotted to Canada each year, the scholars being chosen by the Commission from the nominees of certain Universities, among which McGill is included.

Candidates should apply, not later than April 1st, through the Chairman of their Department. Details concerning the regulations may be obtained from the Registrar's Office.

ROYAL SOCIETY OF CANADA FELLOWSHIPS.—Ten annual research fellowships, endowed by the Carnegie Corporation, will probably be awarded in 1940. They are of the value of $1,500, are open to men and women on equal terms, and are tenable normally outside Canada only. Candidates should have at least a Master's degree and their age should not exceed 32. In 1940 the last day for receiving applications was February 1st. Further particulars may be obtained from the Registrar's Office.

†Not to be awarded until further notice.

ALEXANDER MACKENZIE FELLOWSHIP IN POLITICAL SCIENCE.—(*See page 204*).

THE DR. J. H. B. ALLAN SCHOLARSHIP. (See page 207).

THE A. A. BROWNE MEMORIAL FUND. (See page 206).

THE CASGRAIN AND CHARBONNEAU AWARD. (See page 208).

THE JAMES COOPER ENDOWMENT. (See page 207).

THE BLANCHE HUTCHINSON RESEARCH FUND. (See page 207).

THE JOHN MCRAE FELLOWSHIP. (See page 207).

THE OSLER MEMORIAL SCHOLARSHIP. (See page 207)

SISCOE GOLD MINES SCHOLARSHIP.—Through the generosity of Siscoe Gold Mines, Limited, who in 1937 contributed $4,800 for scholarships in Geology, Mining Engineering, or Metallurgy, McGill University will offer for the session 1941-42 one graduate scholarship of $400, tenable at the University. Candidates must be graduates of McGill University or of another institution recognized for the purpose. Applications must reach the Registrar, McGill University, before the 1st of April. Further details may be obtained from the Registrar's Office.

†THE RHODES SCHOLARSHIPS.—These scholarships of £400 a year are tenable for two years at the University of Oxford. A third year may be granted under certain conditions.

Candidates must be British subjects with at least five years domicile in Canada and be between the ages of nineteen and twenty-five.

Two scholars are chosen annually from the Province of Quebec, and men students in any Faculty may apply.

Applications must be in the hands of the Secretary of the Provincia Selection Committee not later than November 10th.

Further details of tenure, eligibility and qualifications, and application forms may be obtained from the Registrar's Office, or the Provincial Secretary, Mr. Henri G. Lafleur, 507 Place d'Armes.

NATIONAL RESEARCH COUNCIL SCHOLARSHIPS.—Bursaries, Studentships, Fellowships, and Scholarships, which in 1940 had the values of $250 (plus tuition fees), $650, $750, and $1,000 respectively, will probably be awarded in 1940 by the National Research Council to highly qualified graduates in Science. They are open on equal terms to men and women, whose age should not exceed 30. In 1940 the last day for receiving applications was March 1st. Further particulars may be obtained from the Registrar's Office.

POST-GRADUATE SCHOLARSHIPS GRANTED BY THE IMPERIAL ORDER DAUGHTERS OF THE EMPIRE.—Nine are offered annually—one for each province. They are of the value of $1,400 and have been founded "to enable students to carry on studies at any university in the United King-

†Not to be awarded until further notice.

dom, in British and Imperial History, the Economics and Government of the Empire and Dominion, or any subject vital to the interests of the Empire." Applications for the Scholarships to be held in 1941-42 should be made before October 15th, 1940.

Full details may be obtained from the Provincial Educational Secretary of the Order in any Canadian Province. In Quebec the address is Room 1111, Mount Royal Hotel, Montreal.

UNIVERSITY WOMEN'S FEDERATION TRAVELLING SCHOLARSHIP.—The Scholarship of the Canadian Federation of University Women, of the value of $1,250, available for study and research work, is open to any woman holding a degree from a Canadian University. In general, preference is given to those candidates who have completed at least one or two years of graduate study and have a definite research in view. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

The choice of the University at which the successful candidate is to pursue her study or research work is left to the Committee of Selection in consultation with the candidate.

Full information can be obtained from the Convenor of the Scholarship Committee, Miss Jean Murray, University of Saskatchewan, Saskatoon, Sask.

Applications and testimonials must be received before February 1st.

PROVINCE OF QUEBEC POST-GRADUATE SCHOLARSHIPS.—A number of scholarships are granted annually by the Government of the Province to graduates who wish to complete their studies outside Canada. These scholarships are each of the value of $1,200 per annum. They are awarded in the first instance for one year, but their tenure may be extended to three years if the work of the holder is satisfactory. Candidates must be bona-fide residents of the Province of Quebec and not over 25 years of age. Each application should state the candidate's age next birthday, and his plans for post-graduate work, and should be accompanied by two testimonials from members of his faculty and two additional references from responsible citizens. Applications should be addressed to the Registrar, and submitted not later than the 1st of April. The awards are generally announced by the Provincial Government at the end of July each year.

OTHER SCHOLARSHIPS

Notices of other scholarships and fellowships are received by the University from time to time. Students may consult these in the Registrar's Office.

V. SCHOLARSHIPS, PRIZES AND MEDALS OPEN TO STUDENTS REGISTERED IN THE VARIOUS SCHOOLS OF THE UNIVERSITY

OPEN TO STUDENTS IN THE SCHOOL OF PHYSICAL EDUCATION

PRIZES AND MEDALS

Gold Medal.—The School offers a gold medal to the student who attains the highest general proficiency throughout the course.

Class of 1925 Shield.—A Shield presented by the Class of 1925, is awarded to the student attaining the highest standing in practice teaching throughout the course and is held for one year by the student.

Lieutenant-Governor's Silver Medal.—This medal is awarded to the graduate student, who attains the highest general proficiency throughout the course.

Class of 1916 Cup.—A Cup, presented by the Class of 1916, is held for one year by the senior student who attains the highest standing in practical work.

Lieutenant-Governor's Bronze Medal.—This medal is awarded to the junior student who attains the highest general proficiency in the sessional examinations.

(N.B.—The above conditions may be amended and prizes may be withheld at the discretion of the Committee.)

OPEN TO STUDENTS IN THE SCHOOL OF GRADUATE NURSES

SCHOLARSHIPS

Applicants for scholarships must meet the entrance requirements of the University (Junior Matriculation standing or its equivalent). Preference will be given to applicants with experience in the nursing field.

1. Alexandra Hospital.

The Board of Governors offers a scholarship for 1940-41 in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses. Members of the hospital nursing staff are eligible.

2. Association of Registered Nurses of the Province of Quebec.
A scholarship of $300.00 to a graduate of an approved school of nursing in the Province of Quebec for any course selected in the School for Graduate Nurses.

3. Children's Memorial Hospital School of Nursing.
The Board of Governors offers a scholarship in the form of maintenance at the hospital during one year's study at the School for Graduate Nurses.

4. Flora Madeleine Shaw Memorial Fund.
A scholarship of $250.00 is offered in memory of Miss Flora Madeline Shaw to nurses wishing to take a course at the School for Graduate Nurses.

5. Montreal General Hospital School of Nursing.
1. The Mildred Hope Forbes Memorial Scholarship, established by Mrs. Norman Wilson in memory of the late Mildred Hope Forbes, is offered to a graduate of the Montreal General Hospital School for Nurses.

2. The Alumnae Association of the Montreal General Hospital School for Nurses offers a scholarship. Only members of the Alumnae Association are eligible.

6. Royal Victoria Hospital School of Nursing.
1. An annual scholarship offered by the Board of Management for a year's study at the School for Graduate Nurses.

2. The Dr. Garrow Scholarship for a year's study at the School for Graduate Nurses offered by the Alumnae Association of the Royal Victoria Hospital School for Nursing.

3. A scholarship in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses.

4. The Harry J. Crowe Scholarship of $600.00 open to a graduate of the Royal Victoria Hospital for a course in nursing or dietetics in a Canadian university.

7. Shriners' Hospital for Crippled Children.
A scholarship in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses offered by the Board of Governors of the Montreal Unit.

8. Victorian Order of Nurses for Canada.
The Victorian Order of Nurses offers some assistance to certain members of its staff to undertake graduate study in public health nursing in any Canadian University where such courses are given.

VI. MEDALS AND PRIZES IN THE DEPARTMENT OF PHYSICAL EDUCATION

1. For Men

The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the University Committee on Physical Education. Every competitor for the silver medal is required to lodge with the judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean of the Faculty to which he belongs, and the medal is not awarded to any student who fails in his examination for the degree.

Further information concerning the regulations and the work of the Department may be obtained from the Director, Dr. A. S. Lamb, Sir Arthur Currie Memorial Gymnasium-Armoury.

II. For Women

Strathcona Prizes.—The Department of Physical Education in conjunction with the M.W.S.A.A., offers a prize for competition in each of the four years of the Faculty of Arts and Science. Details of the competition are announced at the beginning of each session.

INDEX OF AWARDS

	PAGE
Abbott (Dr. Maude E. S.) Scholarships	199
Adams (F. D.) Scholarship	206
Alexander (Charles) Scholarship	186
Alexandra Hospital Scholarship	212
Allan (Dr. J. H. B.) Scholarship	207
Allan (Margaret Jane) Scholarship	186
Alliance Française Medals	189
Alumnae Society Bursaries and Loans	192
American Society of Metals Prize	195
Anglin Bursary	197
Anglin-Norcross Prizes	194
Arts and Science Scholarships	185-188
Association of Registered Nurses Scholarship	213
Ballon (Ellen) Piano Scholarships	202
Barclay Scholarship	186
Baylis Scholarship	196
Beatty (Sir Edward) Medal	193
Beatty (Sir Edward) Scholarships	178
Bedford Graduates' Society's Scholarship	180
Bnai Brith Bursaries	183
Bnai Brith Women's Auxiliary No. 257 Bursary	192
Botany, Prizes in	191
British Association Prizes	194
British Association Medal	197
Browne (A. A.) Fellowship	206
Bruce (Robert) Bursary	179
Bruce (Robert) Scholarships	179, 187
Bursaries	175
Busteed (Edwin Botsford) Scholarship	208
Canadian Institute of Mining and Metallurgy Loan Fund	198
Canadian Institute of Mining and Metallurgy Medal	197
Canadian Institute of Mining and Metallurgy Prizes	195
Canadian Pacific Railway Company's Scholarships	180
Carpenter (Philip) Fellowship	205
Casgrain and Charbonneau Award	208
Chancellor's Medal	193
Chapman (Henry) Gold Medal	189
Chapman (Henry) Prize	190
Chemical Industry Society's Prize	195
Cherry Prize	190
Children's Memorial Hospital Scholarship	213
Christie-Storer Chapter Scholarship	181
Class of 1916 Cup	212
Class of 1899 Fund	197

Index of Awards

	Page
Class of 1925 Shield	212
Commercial Society Loan Fund	193
Cooper (James) Endowment	207
Crowe (Harry J.) Scholarship	213
Dawson (Sir William) Scholarship	186, 195
Dawson (Sir William) Fellowship	205
Delta Phi Epilson Sorority Bursary	188
Delta Upsilon Scholarship	203
Dental Surgeons of the Province of Quebec (College of) Prize	200
Demonstratorships	203
Dentistry: First and Second Year Prizes	200
Douglas (Dr. James) Bursaries	196
Douglas (Dr. James) Fellowship in Mining Engineering	205
Douglas (Dr. James) Fellowship in Pathology	207
Drake (Joseph Morley) Prize	199
Drummond (Guy) Memorial Scholarship	204
Elder (John Munro) Prize	199
Engineering Institute of Canada Prizes	194, 195
Evans (Nevil Norton) Scholarship	196
Exhibition of 1851 Scholarships	209
Fairley (Grace) Trafalgar Scholarship	181
Fantham Memorial Prize in Zoology	190
Farrand (Narcissa) Scholarship	181
Forbes (Mildred Hope) Memorial Scholarship	213
Forsyth (Dora) Prize	190
Forsyth (Robert) Prizes	195, 199
Fourth Year Scholarships in Arts and Science	188
French Summer School Scholarships	202
Frost (George Henry) Loan Fund	197
Garrow (Dr.) Scholarship	213
Governor-General's Gold Medal	189
Governor-General's Silver Medal	189
Harrington (Dr. B. J.) Bursary	206
Hersey (Dr. Milton L.) Prize	194
Hils (Joseph) Prize	198
Historical Society's Prize	190
Hoare (Walter J.) Scholarship	200
Hodgson (Madelene) Prize	190
Hodgson (Sidney J.) Scholarships	180
Holmes Gold Medal	198
Houston Scholarship	187
Howard (Campbell) Prize	199
Hunt (Dr. T. Sterry) Scholarship	205
Hurlbatt (Ethel) Scholarship	192

INDEX OF AWARDS

	Page
Hutchinson (Blanche) Research Fund	207
I.O.D.E. Bursary in Agriculture	202
I.O.D.E. Bursary in the School for Teachers	202
I.O.D.E. Postgraduate Scholarships	210
Instructorships	203
Jackson (Slater) Prize	199
Jacobs (Joseph H.) Prize	192
Jenkins Brothers' Scholarship	196
Jewish Women (Local Council of) Scholarship	192
Johnson (Phelps) Prize	194
Jones (Hon. Robert) Bursary	179, 196
Joseph (Ethel Walkem) Prize	191
Khaki University and Y.M.C.A. Memorial Scholarship Fund	183
Law (Clara) Fellowship	207
Leonard Foundation Scholarships	183
LeRoy Memorial Fellowship	205
Lieutenant-Governor's Medals	189, 193, 197, 198, 200, 201, 212
Loan Funds	176, 184, 185
Loans	176
Logan Bursaries	191
Logan Gold Medal	189
Lyman (Hannah Willard) Scholarship	188
McCall (James Darling) Scholarship	188
McCrae (John) Fellowship	207
Macdonald College Alumni Association Scholarship	209
Macdonald (Sir William) Entrance Scholarships	178
Macdonald (Sir William) Scholarships in Arts and Science	186
Macdonald (Sir William) Memorial Scholarships in Music	202
Macdonald (Sir William) Travelling Scholarship in Law	208
McGill (Women Associates of) Bursary	184
Macintosh (Annie) Prize	189
MacKay (H. M.) Memorial Scholarship	196
Mackenzie (Alexander) Fellowship	204
Mackenzie (Alexander) Scholarships	188
McLennan (Hugh) Scholarship	206
Macnaghten (Chester) Prize	184
MacRae (Isabella) Scholarship	181
Mailhiot (Adolphe) Memorial Prize	201
Marceau (Ernest) Prize	195
Mills (Major Hiram) Gold Medal	189
Mills (Major Hiram) Scholarship	187
Mining and Metallurgical Research Fellowships	205
Molson (Anne) Gold Medal	189

INDEX OF AWARDS

	PAGE
Molson (Anne) Prize	191
Montreal Bar Association Prize	201
Montreal Dental Club Gold Medal	200
Montreal General Hospital Scholarships	213
Montreal Light, Heat & Power Company's Prizes	194
Morris (Alexander) Exhibition	201
Mount Royal Dental Society's Prizes	200
Moyse Travelling Scholarships	203
National Research Council Scholarships	210
Nutting (Charles Albert) Prize	201
Oliver (Allen) Fellowship	204
Oliver (Allen) Gold Medal	189
Ontario Graduates' Society Loan Fund	185
Osler Memorial Scholarship	207
Ottawa Valley Graduates' Bursaries	179
Penhallow Prize	190
Peterson Memorial Prize	190
Peterson Memorial Scholarship in Classics	187
Peterson Memorial Scholarships in Music	202
Pettes, Mrs. N. (Narcissa Farrand) Scholarship	181
Physical Education (School of) Gold Medal	212
Porter (Dr. J. B.) Prize	194
Porter (Dr. J. B.) Scholarship	206
Presbyterian College Scholarships	181
Primary Prize in Medicine	199
Prince of Wales Gold Medal	189
Quebec (Province of) Post-Graduate Scholarships	211
Redpath (Jane) Scholarship	186
Reford Scholarship	186
Registered Nurses' Scholarship	213
Research Council Scholarships (National)	210
Rhodes Scholarships	210
Robertson (Louis) Prize	194
Ross (P. S.) Bursary	179
Rowat (Thomas Alexander) Scholarship	201
Royal Architectural Institute of Canada Medal	197
Royal Commissioners for 1851 Scholarships	209
Royal Society of Canada Fellowships	209
Royal Victoria College Entrance Scholarships	191
Royal Victoria College Loan Fund	192
Royal Victoria College Resident Bursaries	191
Royal Victoria Hospital Scholarships	213
Scott (Barbara) Scholarship	186
Scott Exhibition	194

INDEX OF AWARDS

	PAGE
Second Year Scholarships in Arts and Science	186
Shakspere Gold Medal	189
Sharp (F. W.) Prize in Commerce	192
Shaw (Flora Madeleine) Memorial Fund	213
Shriners' Hospital Scholarship	213
Siscoe Gold Mines Scholarship	210
Snyder (Charles William) Scholarship	187
Society of Chemical Industry Prize	195
Stewart (Alexander D.) Prize	199
Stewart (Neil) Prize	184
Strathcona Prizes for Physical Education	214
Sutherland Gold Medal	198
Theological College Scholarships	181
Third Year Scholarships in Arts and Science	187, 188
Tighe (James) Prize	194
Torrance (Elizabeth) Gold Medal	201
Trafalgar (Grace Fairley) Scholarship	181
Turner (P. J.) Prize	194
Undergraduates' Society Prize in Engineering	195
United Theological College Bursaries	181
University Bursaries	183
University Entrance Scholarships	177
University Scholarships	176
University Loan Fund	176
University Women's Federation Scholarships	211
Vaughan (Susan Cameron) Scholarship	192
Victorian Order of Nurses' Scholarship	213
Waddell Loan Fund	197, 206
Wicksteed Medals for Physical Education	214
Williams (Dr. J. Francis) Fellowship	207
Women Associates of McGill Bursary	184
Wood Gold Mdeal	198
Workman Student	193
Y.M.C.A. Memorial Scholarship Fund	183
Zoology, Prizes in	191

McGILL UNIVERSITY

MONTREAL

McGILL COLLEGE

(FACULTY OF ARTS AND SCIENCE)

1940-41

INDEX

	Page
Administrative Officers	237
Admission Requirements	239, 240
Admission to Upper Years	241
Advanced Courses	251
Advanced Standing	241
Advancement from year to year	245
Advisers	242
Age of Admission	240
Anatomy	262
Ancient History	274
Application Forms	240
Attendance Rules	244
B.A., Courses for General Degree	249, 252
B.A., Courses for Honour Degree	249, 253
B.A., M.D.	243
B.Sc., Courses for General Degree	255, 256
B.Sc., Courses for Honour Degree	255, 258, 259, 260
B.Sc., M.D	243
Bacteriology	262
Biochemistry	264
Biological Subjects, Honours B.Sc. in	259
Botany	265
Bursaries	247
Changing Courses	242
Chemistry	268
Classes in Examinations	245
Classes of Students	239
Classics	271
Committees	238
Continuation Subjects	248, 257
Courses of Lectures in Arts and Science	262

	Page
Degrees	248
Distinction in General Course	248
Economics	275
Education	277
Engineering Physics	261
English	279
Entrance Requirements	239, 240
Examination Marks	245
Examinations	244, 245
Faculty of Arts and Science	239
Faculties and Schools	318
Fees	246
Final Examinations	245
French	284
Functional Biology, Honours B.Sc. in	260
General Courses for B.A. Degree	249, 252
General Courses for B.Sc. Degree	255, 256
Genetics	287
Geological Sciences	288
German	290
Greek	271
High School Diploma	247, 277
Histology	262
History	293
History, Ancient	274
Honour Courses for B.A.	249, 253
Honour B.Sc. Degree	255, 258
Honours B.Sc. in Biological Subjects	259
Honours B.Sc. in Functional Biology	260
Interim Tests	251
Latin	273
Law	296

	PAGE
Limited Undergraduates	235
Loan Funds	239
Marks, Pass	247
Mathematics	245
Medals	296
Mid-Sessional Examinations	247
Mineralogy	244
Music, Subject of	288
Natural Science, Course in	299
Partial Students	265, 287, 288, 316
Pass Marks	240
Period of Study for a Degree	245
Philosophy	239
Physics	302
Physics, Engineering	305
Physiology	261
Political Science	309
Prizes	275
Probation	247
Professional Faculties	246
Promotion	243
Psychology	245
Registration	310
Requirements for Admission to Professional Courses	242
Scholarships	243
Sociology	247
Spanish	314
Standing Committees	315
Supplemental Examinations	238
Training of Teachers	245
Undergraduates	277
Withdrawal from the Faculty	239
Women Students	246
Zoology	239
	316

ADMINISTRATIVE OFFICERS

THE UNIVERSITY

Principal.....F. Cyril James, B.Com., M.A., Ph.D., F.R.S.C.

Secretary and Bursar.....F. O. Stredder, M.A., Ph.D.
(on military service)

Registrar.....T. H. Matthews, M.A.

Acting Bursar.....William Bentley, C.G.A., A.C.I.S.

Director of Extra-Mural Relations....Wilfrid Bovey, B.A., LL.B., D. Litt., LL.D., F.R.S.C.

Librarian.....G. R. Lomer, M.A., Ph.D., F.L.A.

Warden of the Royal Victoria College..Muriel V. Roscoe, M.A., Ph.D.

Warden of Douglas Hall.....W. Bruce Ross, M.Sc., Ph.D.

FACULTY OF ARTS AND SCIENCE

Dean of the Faculty.....Hon. Cyrus Macmillan, M.A., Ph.D., M.P.

Chairman, Humanities Group.....Roderick D. Maclennan, M.A.

Chairman, Biological Sciences Group..David L. Thomson, M.A., Ph.D., F.R.S.C.

Chairman, Physical Sciences Group...W. H. Hatcher, M.Sc., Ph.D., F.R.S.C.

Chairman, Social Studies and Commerce Group.....Percy E. Corbett, M.A., LL.D.

Acting Director of the School of Commerce.....E. F. Beach, M.A., Ph.D.

Assistant to the Dean of the Faculty...P. F. McCullagh, M.A.

STANDING COMMITTEES OF THE FACULTY OF ARTS AND SCIENCE

SESSION 1940-41

THE B.A. ADVISORY COMMITTEE

Dean Cyrus Macmillan (Chairman)
Professor C. A. Dawson
Professor R. du Roure
Professor C. E. Fryer
Professor W. L. Graff
Professor J. C. Hemmeon
Professor John Hughes
Professor R. D. Maclennan
Professor C. T. Sullivan
Professor W. D. Tait
Professor W. D. Woodhead

THE B.COM. ADVISORY COMMITTEE

Professor E. F. Beach (Chairman)
Professor P. E. Corbett
Professor J. P. Day
Professor W. H. Hatcher
Professor J. C. Hemmeon
Dean Cyrus Macmillan
Professor H. Tate
Professor R. R. Thompson

THE B.Sc. ADVISORY COMMITTEE

Dean J. J. O'Neill (Chairman)
Professor W. H. Hatcher
Professor C. L. Huskins
Professor O. Maass
Professor G. W. Scarth
Professor A. N. Shaw
Professor D. L. Thomson

The B.A., B.Sc., and B.Com. Advisory Committees also act together as a General Advisory Committee.

SCHOLARSHIPS COMMITTEE

Professor D. A. Keys (Chairman)
Professor E. R. Adair
Professor C. L. Huskins
Professor C. E. Kellogg
Dean Cyrus Macmillan
Professor A. S. Noad
Dean J. J. O'Neill
Professor W. D. Woodhead
Professor Muriel V. Roscoe

COMMITTEE OF THE BOARD OF STUDENT ADVISERS

Professor John Hughes (Chairman)
Professor W. H. Hatcher
Professor P. F. McCullagh
Dean Cyrus Macmillan
Professor T. F. M. Newton
Professor R. R. Thompson
Professor Muriel V. Roscoe

A complete list of the teaching staff of the University, including the Faculty of Arts and Science, is printed as a separate announcement which may be obtained from the Registrar's Office.

THE FACULTY OF ARTS AND SCIENCE

General Information.

The undergraduate work of the University in Arts, in Pure Science, and in Commerce, is done in McGill College, usually called the Faculty of Arts and Science. The Dean of McGill College is the Dean of the Faculty of Arts and Science.

The work of the students who are candidates for the degree of Bachelor of Commerce (B.Com.) is supervised by the Acting Director of the School of Commerce which is an integral part of the Faculty.

Women Students.

Women are admitted to the courses and to the degrees of the Faculty on the same terms as men.

Entrance Requirements.

Students may be admitted into the Faculty as full undergraduates after passing either the Junior or the Senior Matriculation Examination or an equivalent examination, in the requisite subjects. A student with incomplete matriculation qualifications is not admitted as an undergraduate.

Period of Study for a Degree.

The bachelor's degree may be obtained only by students who have regularly attended the prescribed courses for at least four years after being admitted into the first year or for at least three years after being admitted into the second year. Students are admitted to advanced standing in the third year only under exceptional circumstances and at least two full years of resident study in the Faculty are required before the bachelor's degree can be granted.

Classes of Students in the Faculty.

(1) *Undergraduates:* Students with complete matriculation qualifications taking the regular work of their year towards a degree.

(2) *Limited Undergraduates:* Students with complete matriculation qualifications who have been given the permission of the Dean of the Faculty to distribute the four years' work over five or more years (but not more than eight years), on the understanding that the sequence of courses conforms to the regular undergraduate rules and time table.

Limited Undergraduates are not eligible for scholarships, medals, bursaries or prizes of any description and may not read for an Honours Degree.

(3) *Partial Students:* Students not registered as proceeding to a degree who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the Chairmen of the Departments concerned that they have sufficient ability to do the work of the courses they desire to take. A student who has tried and failed to pass the matriculation in a subject is not allowed to register as a partial student in that subject.

In the courses they are taking, partial students must fulfil all the requirements of classroom work and tests prescribed for regular students.

Subject to the above limitations, lectures are open to partial students in both honours and general classes. Should a partial student acquire or subsequently be accorded regular standing by vote of the Faculty, his partial courses may by permission of the Faculty be counted toward a degree. Partial students are not eligible for medals, scholarships, bursaries, or prizes.

AGE OF ADMISSION

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

APPLICATION FOR ADMISSION TO THE FACULTY OF ARTS AND SCIENCE

All applications to enter the Faculty of Arts and Science must be made on forms which may be obtained from the Registrar's office. Completed applications must reach the Registrar before September 10th.

The number of admissions is limited and the College is not bound to accept applicants who have passed the required examinations.

ENTRANCE REQUIREMENTS

See General Announcement for details.

1. A student may apply for admission to the First Year of the Faculty of Arts and Science after passing in the required subjects of the Junior Matriculation Examination or one of the examinations recognized by the University as the equivalent of Junior Matriculation.

2. A student may apply for admission to the Second Year of the Faculty of Arts and Science after passing in the required papers of the Junior and Senior Matriculation Examinations or their recognized equivalents. Only in exceptional circumstances is a student who has not written and passed the Junior Matriculation Examination or its equivalent ad-

mitted by Senior Matriculation to the Second Year. At least a good average second class standing in Senior Matriculation or its equivalent is required for entrance to the Second Year.

A student who has been admitted to the first year and who has failed to advance to the second year is not permitted to obtain advanced standing by Senior Matriculation, but is required to take the regular supplemental examinations of the first year if he desires to proceed in his course.

3. Students who are admitted by other than McGill Matriculation or Quebec High School Leaving Examinations may, with the approval of the Dean, be exempted from the necessity of having matriculated in a classical language. A student who applies for admission to second year after having taken the first year at some other college or university may, with the approval of the Dean, be granted exemption from the compulsory Classics requirement in the Matriculation and the first year B.A. course.

Candidates for admission to the second year of the B.A. course may substitute a third foreign language for Mathematics only if they have passed in the Elementary Mathematics of the Junior Matriculation or of some equivalent examination.

The Dean of the Faculty of Arts and Science may, at his discretion, admit a student who has substituted one of the other optional subjects for Mathematics if

(1) the student has already passed the Junior Matriculation, or some equivalent examination, in Elementary Mathematics;

(2) the record of the student shows sufficient promise to justify this concession.

4. Students may be admitted to the second year in the B.A. course with Junior Matriculation, German or Greek or Spanish as one of the five subjects required if they have not previously taken that subject for Junior Matriculation.

5. Full details of these examinations are given in the General Announcement which may be obtained from the Registrar's Office.

ADMISSION TO THE SECOND AND THIRD YEARS OF THE FACULTY

Applications for entrance to the Second and Third Years of the Faculty should be made to the Registrar's Office on the proper forms, and must be accompanied by complete details of previous university work.

REGISTRATION

Students whose applications (see page 240) have been accepted register in the Arts Building on September 26th or 27th, between the hours of 9.00 a.m. and 12.00 noon and from 2.00 to 4.30 p.m., or on September 28th, from 9.00 a.m. to 12.00 noon only.

Students of the three senior years who have already been admitted to the University are also required to register in the Arts Building at the same time.

After September 28th all registration is done in the Registrar's Office and a special late registration fee must be paid (see the General Information Pamphlet included in this Announcement.)

On Thursday, September 26th, 1940, the first day of registration, all First Year students and others entering the Faculty of Arts and Science meet in Moyse Hall at 11 a.m. to be welcomed by the Principal and given instructions by the Dean of the Faculty.

No student will be admitted after October 15th except by special permission of the Dean.

Women students of the Faculty, after registration, are required to enter in the roll book of the Royal Victoria College their names, home addresses and addresses in Montreal. Students of the Royal Victoria College not residing with their parents or guardians in Montreal, who do not apply for residence in the College, are required to submit their plans for residence in writing to the Warden and to obtain written approval.

CHANGING COURSES

Students may change the courses for which they have registered provided that the changes do not conflict with the regulations and that the change is made not later than the 15th of October. No changes can be made after this period. Application to change courses must be made to the Registrar's Office.

ADVISERS

At the time of registration each student entering the University for the first time is interviewed by a member of the Committee of the Board of Student Advisers. At this interview the student is given any information or advice that he may need and is assisted in the selection of his courses. At the same time he is assigned to an adviser whom he may consult at any time and should consult at least once a month.

CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES

Each undergraduate in the Faculty is required to register for one of the three bachelor's degrees offered, and, unless otherwise instructed by the Dean, must follow the regular work of his year towards this degree.

There are no specially organized courses of study in the Faculty for students intending, at the end of their First, Second or Third Year, to enter one of the other Faculties and such students are advised, before registering for the first time in the Faculty of Arts and Science, to acquaint themselves with the entrance requirements laid down by these other Faculties (see the General Announcement).

Students who have completed with good second class standing three years of the General Course leading to the Arts degree and two years in the Faculty of Medicine will, on application, be recommended by the Faculty of Arts and Science for the B.A. degree, if they have satisfied all the specific requirements of the First, Second, and Third years for the B.A. degree as to subjects, and in each of the second and third years taken three courses in Arts subjects so chosen as to fulfil the requirement of continuation study or its equivalent. This regulation comes into effect for those students entering the second year of the Arts course in 1940-41.

Applications for the Arts degree from students in Medicine who completed three years of the course before this regulation was enacted will be considered by the Faculty on their merits and according to the regulations in effect at the time when they were registered in the Faculty.

Students completing three years in the course leading to either the Arts or the Science degree and two years in Medicine are entitled to apply to the Faculty of Arts and Science for the degree of B.Sc. Students will not however be recommended for the B.Sc. degree unless they have satisfied the specific requirements for that degree or their equivalent. Students with high distinction in the first three years of the B.Sc. course who maintain that standing in the first two years in Medicine at McGill will be granted the degree with distinction or great distinction.

A minimum of two years in the Faculty of Arts and Science is required for admission into the Faculty of Law. Nevertheless, candidates proceeding to the Bar of the Province of Quebec must be British subjects, hold the degree of B.A., B.Litt., or B.Sc. from a Canadian or British University, and satisfy the Bar examiners that they have successfully completed "the regular course in philosophy" in an approved university. Students are advised to take this course in philosophy before entering the Faculty of Law. The following courses are available: Philosophy 1, 2, 3, and 4 (see page 302).

ATTENDANCE

1. Students of the first and second years and all partial students (page 240) and students on probation (page 246) are required to attend at least seven-eighths of the total number of lectures or laboratory periods in each course. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth must repeat the work in that course.

Excuses on the ground of illness, domestic affliction or accident are dealt with only by the Dean.

Excuses for absences in excess of one-eighth are entertained only in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates are filed, and, if they are accepted, the Dean gives the student a statement excusing the absences covered; this must be shown to all the professors concerned as promptly as possible.

2. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. These cases are dealt with by the Dean of the Faculty.

3. Lectures commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they report themselves at the close of the lecture and are marked "late". Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of the lecture are marked absent.

MID-SESSIONAL EXAMINATIONS

There are no regular mid-sessional examinations in January except in courses which are given only in the first term, and in these courses the examination may be held in May with the other final examinations if the Department so desires. Members of the teaching staff may, however, give from time to time such interim examinations as they think necessary.

FINAL EXAMINATIONS

The final examinations are held in April and May.

PASS MARK AND CLASSES

The pass mark in all examinations is 50 per cent, and the marks for first and second class standing are 80 per cent and 65 per cent respectively.

ADVANCEMENT TO REGULAR STANDING IN ANY YEAR

An undergraduate is in regular standing only if he has completed all the courses of his previous years.

An undergraduate who has not passed all his examinations in May will have his standing determined in September, on the results of the regular supplemental examinations.

REGULATIONS CONCERNING SUPPLEMENTAL EXAMINATIONS

A student who has failed in one or more courses is expected to write the regular supplemental examinations in these courses in the following September.

A student who fails to pass a supplemental examination in September or who is prevented by illness or other compelling reason from writing, may apply to the Dean for permission to write the next regular examination, normally in May, provided that there is no conflict in the examination time-table.

All applications for supplemental examinations must be made to the Dean in writing and must reach the office of the Dean before September 1st (for the September supplemental examinations), December 1st for the regular examinations of first term courses and March 15th for the May sessional examinations if written as supplemental examinations.

The fee for all supplemental examinations, including the regular examinations of the first term or of the session is $10 for each paper.

The fee must accompany the written application and is payable to McGill University.

ADVANCEMENT WITH CONDITIONS

If after the supplemental examinations in September a student still has a failure in only one full course or two half-courses of the year he is attempting to complete, he may proceed to the following year *conditioned* in this course or in these two half-courses.

A student who has been conditioned in any course for a year is not promoted until the condition is removed. As an example, a student of the second year conditioned in a first year course must complete this course before he can enter the third year.

A student may remove a condition either by passing a supplemental examination in September or by taking the regular examination in the course as a supplemental or, if the course is not compulsory, by substituting for it a different course, by permission of the Dean. The condition is not removed if the student fails to pass such a substituted course.

The student must register for the substituted course at the beginning of the session and pay a special fee of $10.00 for the substitute course (one full course or two half courses). There will be no supplemental fee required in the case of substitute courses.

FAILURE TO ADVANCE: PROBATION

1. A student who after the September supplemental examinations is not qualified to proceed either as a regular or as a conditioned student is placed *on probation.*

   Examples:—A second year student who has failed to remove a first year condition, or a student who has failed in more than one full course of the past session.

2. A student remains on probation until his deficiences are removed.

3. A student on probation is required to take a year of study consisting of at least four courses. Courses required for the student's degree must be repeated in the year of probation if the student has previously failed in them. The remainder of the courses are selected with the approval of the Dean.

4. All the courses of the year of probation must be passed before the student will be admitted to regular standing.

5. Courses taken to fulfil the requirements of the year of probation can not be credited to a subsequent year of regular standing.

WITHDRAWAL FROM THE FACULTY

Students whose records do not justify their continuance in the Faculty may be requested to withdraw.

FEES

The regular fees and special fees are given in the General Information Pamphlet included in this Announcement.

SPECIAL FEES IN ARTS AND SCIENCE.

1. *High School Diploma Course for Graduates.* Students in the Graduate Year leading to the High School Diploma pay a University fee of $125. This does not include the fee of $20 for the special course in teaching French, Music, and Drawing (see page 278).

2. *Conditioned Students.* Special fee for an additional course repeated or substituted (one full course or two half courses) $10.00.

3. Students of the Faculty of Arts and Science who are permitted by the Dean to take lectures in the School of Commerce as part of their regular course, pay an additional fee of $10.00 for each course in Commerce.

4. Graduates of the Faculty taking undergraduate lectures for which no academic credit is sought pay one-half the partial fee, with a maximum of one hundred and fifty dollars. Graduates of the Faculty and Graduates of other Universities attending full courses in affiliated theological colleges who are taking undergraduate lectures for which credit is sought will pay the regular partial fee, with a maximum of one hundred and fifty dollars. This does not apply to courses for which there is a special fee.

DATES OF PAYMENT.

Fees are due and payable at the Bursar's Office from 9 a.m. to 4 p.m., Saturday 9 a.m. to noon during the following period:—

Tuesday, October 1st to Thursday, October 3rd. If desired, fees may be remitted by mail before this period. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the following paragraph:

Immediately after the prescribed dates for the payment of fees the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

All fees are payable in Canadian currency.

SCHOLARSHIPS, PRIZES, MEDALS, AND LOAN FUNDS

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

DEGREES AND COURSES OF STUDY

The Faculty of Arts and Science offers courses of study leading to three degrees:

Bachelor of Arts.
Bachelor of Science.
Bachelor of Commerce.

The courses offered by the Faculty are grouped in four ways in order to secure a co-ordination and integration of the courses of study—viz.: the Humanities, Social Studies and Commerce, Physical Sciences, and Biological Sciences.

A course of study for the Arts degree is predominantly concerned with the Humanities, comprising language, literature, and philosophy, and the Social Studies, economics, education, history, political science, sociology.

A course of study for the Science degree emphasizes the Physical Sciences, mathematics, chemistry, geology, and physics, and the Biological Sciences, anatomy, bacteriology, biochemistry, botany, genetics, physiology, psychology, and zoology.

For the Commerce degree see the Announcement of the School of Commerce.

In the case of both the Arts and the Science degrees the course of study includes one or more subjects from other groups than the particular one in which the major part of the course of study lies.

There are two distinct kinds of degrees conferred in Arts and Science, the General Degree and the Honours Degree.

A student proceeding to a General Degree has a wide range of subjects from which to choose his courses but he must concentrate from the Second Year onward on two subjects called *Continuation Subjects* and he must select one or more courses in other subjects so that there may be a proper distribution of his studies. The continuation subjects are chosen from a list of those which are laid down as appropriate to the degree for which the student is a candidate. A full course (or two half-courses) must be taken each year in each of these two continuation subjects. The elective courses necessary to make up the work of each year should be chosen by the student so that he may fulfil (*a*) the requirements of that particular year and (*b*) the prerequisite requirements of any course that he wishes to take in the following year.

When the student's record during his Second, Third and Fourth Years of the General Course averages a high second class standing a special award of Distinction is made at graduation. When the record averages first class standing the award made is Great Distinction.

A student proceeding to an Honours Degree chooses either (a) one subject or (b) two cognate subjects in which to specialize. He will also take courses in other subjects selected with the approval of the department or departments in which he is studying. The honours courses normally begin in the Second Year, though in the case of students of exceptional merit they may be commenced in the Third Year. The student must attain at least second class standing each year in order to continue in the course for the honours degree. The whole record during the Second, Third and Fourth Years is taken into consideration at graduation and honours are awarded by the Faculty on the recommendation of the department or departments in which the student has elected to study.

A student who is qualified by matriculation to proceed to the B.A. or B.Com. or B.Sc. degree and who does not know at the beginning of his first year which degree he desires to obtain may qualify to enter the second year leading to any one of these three degrees by taking in his first year—English, Mathematics, a Classical Language, Physics, Chemistry and a Modern Language or History.

A student taking courses in the McGill C.O.T.C. for the Lieutenant's certificate and/or for the Captain's certificate may have either of these courses included in any one year on his registration card as an elective course. A student in the third and fourth years taking advantage of this authorised privilege is required to have the consent of the Dean and, in the case of an honours student, of the Departments concerned.

Subjects and Courses Required for the Degree of Bachelor of Arts

Every candidate for the B.A. degree must meet certain requirements whether he is proceeding towards an Honours or a General degree. A course in English, in Classics (Greek or Latin), and in Mathematics is required in the First Year of study.

With the Dean's permission a student may be allowed to replace Mathematics by a first year course in another subject in which he has shown marked proficiency and which is in accordance with the trend of the studies that he is proposing to pursue. A student may also be granted, with the Dean's permission, exemption from the first year Classics requirement if he has been admitted to McGill on some other basis than that of (a) McGill Matriculation Examination, (b) Quebec High School Leaving Examination.

There is further required of all candidates for the degree a course in a modern foreign language, which may be taken in any year.

Where a student chooses to begin the study of a language in order to meet either the classics or the modern language requirement he must take and pass a further course subsequent to the elementary one to satisfy

this language requirement. This rule applies, for example, to a student who begins the study of Greek or German or Spanish (there is no beginning course in French); in every case the elementary course alone will not satisfy the requirement for the B.A degree. On the other hand a beginning course is given full credit when it is taken as a simple elective which is not to be counted towards satisfying the language requirement, except that in the Fourth Year such an elementary course is treated as only a half-course.

For the General B.A. degree there is further the requirement of one course in a science subject, which may be taken in any year.

A student proceeding to an Honours degree is not required to take a course in Science.

In each of the First and Second Years five courses must be taken, that is, normally fifteen hours of class work per week; and in the Third and Fourth Years respectively, four courses, making twelve hours per week. The third hour each week in each individual course may be devoted to group conferences.

First Year of the B.A. Course (for Both General and Honours Degrees)

(*a*) *Compulsory Courses:*
English 2.
*Latin or Greek.
*Mathematics.
*(See above page 249 for the exemptions in Classics or Mathematics in exceptional cases.)

(*b*) *Elective:*
Two of the following:—
History.
Greek or Latin (if not already taken).
French.
German.
Spanish.
Science (Physics 1 or 1B or Chemistry 1 or 16 or **Botany 1 or **Zoology 1 or Natural Science 1).
**(To be taken only by students who are properly qualified).
Music.
Military Science.

Details of the work in each subject are given on pages 262 to 318.

Students seeking to qualify for the High School Diploma of the Province of Quebec have certain additional requirements to fulfil in both the First and Second Years. See page 277.

The student is normally free to elect *two* courses in the First Year which, together with the three compulsory courses, complete the total

of five required for that year. In choosing his courses, however, the student is advised by those who are registering him to give careful consideration to his selection. Three points must be remembered:

A. He has to consider the desirability of choosing a course in a modern foreign language; this may be taken in any year, but it is preferable to take it not later than the Second Year, because a student who subsequently elects to take an Honours course in some other subject than a foreign language may find it difficult to take this compulsory language course in the Third or Fourth Year when he is likely to be fully occupied with his Honours studies.

B. Unless he is intending to take an Honours course he has to choose, at some time or other during his four years, one of the science courses.

C. If he has in view taking an Honours course he must be careful to select the course in the First Year which is the prerequisite for such Honours study in the Second Year. A student who intends to study a subject either for Honours or Continuation is cautioned to look up the requirements of the appropriate departments, given on pages 262 to 318.

D. Before being admitted to Honours study in History the student is expected to have a knowledge of French and of Latin. The latter requirement may be satisfied by a first year college course following Matriculation Latin or, at the discretion of the Department, by high ranking in Latin in the Matriculation examination.

E. A student who intends to enter the Faculties of Medicine or Dentistry upon the completion of his third year must elect both Mathematics and Physics in his first year.

ADVANCED COURSES IN THE FIRST YEAR

Some departments giving instruction in the First Year offer special lectures or work of a more advanced character to students with adequate qualifications.

These advanced courses are generally arranged by the departments when lectures actually commence and there is in such cases no separate registration for them.

Students of scholarship standing entering the first year may, with the approval of the Dean, take second year courses in subjects for which they are especially qualified.

INTERIM TESTS

There are two regular interim tests for all students of the First Year, the first being held near the middle of November and the second during the week preceding the Christmas vacation.

The test is usually the equivalent of a standard examination of one hour.

Students who fail in more than one-third of these tests are not allowed to be members of a College athletic team, to hold office in any College society, or to take part in any major student activity.

THE GENERAL B.A. CURRICULUM IN SECOND, THIRD AND FOURTH YEARS

At the beginning of the Second Year a student proceeding to a General B.A. degree must choose two subjects from those listed below in Division I. These two subjects are designated Continuation Subjects and are to be studied during the Second, Third and Fourth Years. A full course (or two half-courses) must be taken *each* year in each of the Continuation Subjects. The additional courses necessary to make the total of five for Second Year, and four for each of the Third and Fourth Years, may be chosen from any of the subjects shown in either Division I or Division II listed below. The student in choosing his elective courses may seek the advice of one of the departments in which he chooses a continuation course. A student may select only those courses, for which he has the prerequisites laid down by the department in which such courses are given, and he is responsible for seeing that the courses chosen do not conflict as regards hours of lectures or laboratory periods.

A student is allowed to take an extra course only if he has obtained at least a second class average in his standing of the previous year.

SUBJECTS OF STUDY OFFERED FOR THE ARTS DEGREE

Division I

Economics.
English.
French.
German.
Greek.
History.
Latin.
Mathematics.
Philosophy.
Physics (when taken as a Continuation Subject with Maths.)
Political Science.
Psychology.
Sociology.
Spanish.

Division II

Ancient History.
Botany.
Chemistry.
Education.
Genetics.
Geology.
Music.
Natural Science.
Physics.
Physiology.
Zoology.
Military Science.

A course intended primarily for First Year students may be counted as a full course in the Second Year.

Students who are pursuing a double course in Arts and Science and Divinity (six years at least) may take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts and Science, less a half course each year or a whole course in one year.

Honours lecture courses are open to properly qualified general students.

THE HONOURS B.A. CURRICULUM IN SECOND, THIRD AND FOURTH YEARS

At the beginning of the Second Year a student proceeding to an Honours B.A. degree may elect to take full honours in one subject or half honours in each of two cognate subjects; these subjects must be chosen from the list given in Division I (see above). Information as to courses to be taken can be found at the end of the descriptive material listed by the appropriate department on pages 262 to 318.

Normally when a student takes honours in two subjects, his certificate on graduation will indicate that the work done in each of these two departments amounts to only half a full Honours course in that department: e.g. First Class Honours in English (one-half) and History (one-half), or First Class Honours in English (one-half) and Second Class Honours in History (one-half). But in the departments of Classics and of Economics and Political Science each of which is divided into two sections—Classics into Latin and Greek and Economics and Political Science into Economics and Political Science, honours in each of these sections is equivalent to half-honours in another department and can be so combined; therefore the certificate on graduation will indicate these merely as honours: e.g. First Class Honours in Greek and Second Class Honours in Latin, or First Class Honours in Economics and Second Class Honours in History (one-half).

The conditions for entering Honours courses in Second Year are as follows:—

(a) A student must not have failed in more than one subject at the final spring examinations in the First Year.

(b) The sanction of the Dean and of the departments in which Honours are elected must be obtained.

(c) No student may take Honours in a subject in which he has failed to attain at least second class standing in his First Year.

A Second Year General student who shows exceptional merit in any subject in his Second Year examinations may, if he so wishes, and if the department is satisfied that his knowledge of the subject is sufficient

to enable him to reach the standard of Honours by two more years' study, be allowed to take up the Honours course in that subject at the beginning of his Third Year.

Honours courses in the Second Year consist of 15 hours per week and in each of the remaining two years 12 hours, covering lectures, conferences and tutorial classes. The work also involves wide reading and in addition to the actual subjects of lectures, study in the general subject selected, in accordance with a definitely prescribed programme. Attention is drawn to the fact that lectures are not given on all parts of the work, and that the examinations for Honours are not necessarily conducted exclusively by the persons who have given the courses.

In the Second Year a student registering for Honours in one subject only, fulfils the requirements of fifteen hours by taking a minimum of two courses or six hours in his Honours subject, and, in addition, such other courses in other departments (bringing the total to fifteen hours) as the department under which he is studying may direct. A student registering for combined Honours in two subjects fulfils the requirement of fifteen hours by taking two full courses in each Honours subject, or twelve hours altogether, and, in addition, one other course (making a total of fifteen hours), such as the two departments under which he is studying may direct. In regard to Honours courses for the Third and Fourth years the student should consult the regulations of the individual departments under which he is working.

Departments are at full liberty to recommend their Honours students to take one or more courses in cognate subjects as the equivalent of courses in their own departments.

Honours students who fail to attain second class honours standing at the end of the Second or Third Year must revert to the General course in their next and following year or years and fulfil its requirements unless they obtain special leave to continue their honours work from the department or departments interested.

An Honours student who has failed in any subject in the Third Year examinations is not allowed to continue his Honours course except with the consent of the Faculty.

A student's whole record during his Second, Third and Fourth Years will be considered in awarding Honours at graduation.

Students in Honours courses who fail to attain second class honours at graduation, or who succeed in attaining second rank honours only in one of two combined courses, must revert to the list of General students and if they are unable to satisfy the requirements of the General B.A. they will not be granted a degree.

Honours are awarded by the Faculty on the recommendation of the department or departments in which Honours are elected.

SUBJECTS AND COURSES REQUIRED FOR THE DEGREE OF BACHELOR OF SCIENCE

An undergraduate may proceed either to a General or an Honours B.Sc. degree; as the distinction between these is not made until the second year (or, in some cases, the third year), there is a common curriculum to be followed by all first year students.

First Year

English 2.
Mathematics 1.
Physics 1.
Chemistry 1 and 1L.
Natural Science 1.
Elective Course.

Elective Subjects

French.
German.
Greek.
History.
Latin.
Music.
Spanish.
Military Science.

Pre-engineering students who have matriculated with only elementary mathematics may substitute the special course in mathematics, for Mathematics 1 and the Elective Course, so that they may attain during the year, the standard required in mathematics for entrance to 1st year Engineering.

In special cases a qualified student may be granted permission to substitute for Natural Science 1 either Botany 1, Geology 1, or Zoology 1. It is recommended that students intending to take an Honours course in Biological Science substitute Botany 1 for Natural Science 1. More advanced courses are available also in Chemistry, Mathematics and Physics for those specially qualified or contemplating Honours.

For general information on Change of Course, on Attendance, on Examinations and Supplemental Examinations, and on Advancement from Year to Year see pages 242, 244, 245; on Distinction in the General Course see page 248; on special requirements for the High School Diploma see page 277; and on Interim Tests see page 251.

THE GENERAL B.Sc. CURRICULUM IN THE SECOND, THIRD AND FOURTH YEARS

In each of these years five courses are required; these courses must be spread over at least four subjects, and must be selected from the groups given below. The student is also required to pursue a continued study of two subjects during the major part of his last three years for the General degree. The normal sequence of courses in any subject chosen for continuation is shown in Group I below. Since courses in Bacteriology, Biochemistry, and Physiology are usually begun in the third year, a student is not obliged to choose these subjects for continued study until the beginning of his third year; in other cases he may commence his continuation subjects at the beginning of his second year. In any year a specially qualified student may be allowed, upon the recommendation of the department concerned, to substitute a more advanced course for any of those listed.

A student is not allowed to take an Extra Course unless he has obtained at least a second class standing in his previous year's work.

Second Year Requirements

Three subjects from Group I; one course from Group III and one course from Group I or II or III.

Third Year Requirements

Two subjects from Group I; one course from Group I or II; one course course from Group III, and one course from Group I or II or III.

Fourth Year Requirements

The same as for Third Year, the two subjects previously chosen from Group I being continued throughout this year. It is permissible, however, to drop one of these continuation subjects in the fourth year provided that two courses be taken in the remaining continuation subject; in this case the student's courses may be spread over three instead of four subjects.

GROUP I (CONTINUATION SUBJECTS)

SUBJECT	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Biochemistry.	See below*	1.	2.
Botany.	1 or 2 or 3.	2 or 3.	2 to 8 (any one course to be chosen).
Chemistry.	2 or 3 or 4.	2 or 3 or 4.	any one advanced course.
Genetics.	1.	3 or 2 and 4.	3 or 2 and 4.
Geology.	1, or 5 and 6.	2 to 13. (any one course to be chosen).	2 to 13. (any one course to be chosen).
Mathematics.	2.	15 or 3 or 4 $\frac{\text{or}}{\text{and}}$ 5.	3 or 4 or 8.
Physics.	2, or 2P.	3A and (3B, 4)	(8A, 9) or (8A, 11) or (5A, 6C).
Physiology.		1A.	2A.
Zoology.	1.	2 or 3.	2 to 7. (any one course to be chosen).

*If Biochemistry is to be taken as a continuation subject in the Third Year, Chemistry 2 and Physiology 1A must be taken in the Second Year.

A student selecting Physics as a continuation subject must also select Mathematics in the first three years.

GROUP II (NON-CONTINUATION SUBJECTS)

SUBJECT	COURSES
Biochemistry.	1, 2.
Botany.	1 to 8.
Chemistry.	2, 3, 4, 5, 6, 8, 9, 10.
Geology.	1 to 13.
Genetics.	1, 2, 3, 4.
Histology.	1.
Mathematics.	2, 15, 3, 4, 5, 8.
Physics.	2P, 2, 3A, 3B, 4, 5A, 8A, 9.
Physiology.	1A, 2A.
Zoology.	1, 2, 3, 4, 5, 6, 7.

GROUP III (Arts Subjects)

Economics and Political Science.
Education.
English.
French.
German.
Greek.
History.
Latin.
Music.
Philosophy.
Psychology.
Sociology.

In selecting courses students should consult the departments concerned.

Details of the courses are given on pages 262 to 318.

HONOURS COURSES FOR THE B.Sc. DEGREE

Honours Courses begin normally in the second year and are offered in Bacteriology, Biochemistry, Botany, Chemistry, Functional Biology, Geological Sciences, Mathematics, Mathematics and Physics (combined), Physiology, and Zoology. Information as to courses to be taken can be found at the end of the descriptive material listed by the appropriate department on pages 262 to 318.

The conditions for entering Honours courses are as follows:—

(a) A student must not have failed in more than one subject at the final spring examinations in the First Year.

(b) The sanction of the Dean and of the Chairmen of the Departments in which Honours are elected must be obtained.

(c) No student may take Honours unless he has obtained at least a second class standing in the first general course offered in the subject elected.

Attention is drawn to the fact that lectures are not given on all parts of the work. The examinations for Honours are not necessarily conducted exclusively by the persons who have given the courses.

Honours students who fail to attain second class honours standing at the end of the Second or Third Year (and Third Year in the cases of Bacteriology, Biochemistry, Physiology, and Zoology) must revert to the General Course in subsequent year or years, unless they obtain special permission to continue their honours work from the department or departments concerned.

An Honours student who has failed in any course of his Honours subject in the Third Year Examinations is not allowed to continue his Honours course except with the consent of the Faculty.

Students in honours courses who fail to attain second class honours at graduation, or who succeed in attaining second class honours only in one of two combined subjects, must revert to the list of General students.

Honours are awarded by the Faculty on the recommendation of the department or departments in which Honours are elected. A student's whole record during his Second, Third and Fourth years will be considered in awarding Honours at graduation.

HONOURS B.Sc. IN BIOLOGICAL SUBJECTS

First Year: As for General B.Sc. (Instead of Natural Science one of Zoology 1, Botany 1, or Geology 1 should be taken; the second year alternatives will vary somewhat with the course here taken.)

Second Year: The second year requirements have been made to give the student the widest possible latitude and are acceptable to the various departments to the extent indicated. Alternative approaches to any particular biological subject may be found under the respective departmental announcement, together with the detailed curricula for the third and fourth years.

General second year requirements are as follows:—

Chemistry 2, 4, 10.

Three courses out of Botany 1.
Genetics 1.
Geology 1.
Physiology 1A.
Zoology 1.
Chemistry 3.
Mathematics 2.

If one of these courses has been taken in the first year, Physics 2P may be included among the three new courses. The other two must be chosen from this list.

Possible combinations compatible with the existing time-table are:

Chemistry 2, 4, 10. Physiology 1A. Zoology 1. Botany 1.	Chemistry 2, 4, 10. Botany 1. Genetics 1. Zoology 1.	Chemistry 2, 4, 10. Zoology 1. Physiology 1A. Mathematics 2 or Genetics 1.	Chemistry 2, 4, 10. Geology 1. Zoology 1 or Botany 1 Chemistry 3A (or equivalent).
leads to honours in Botany. Zoology. Bacteriology. Biochemistry. Physiology.	leads to honours in Zoology. Botany.	leads to honours in Biochemistry. Zoology. Bacteriology. Physiology.	leads to honours in Geology. Zoology or Botany.

HONOURS B.Sc. IN FUNCTIONAL BIOLOGY

Students taking the First and Second Year curricula for the Honours degree in Biological subjects may proceed, as already indicated, to Honours in Bacteriology, Biochemistry, Botany, Physiology, or Zoology. Alternatively they may proceed to this Honours course in Functional Biology, postponing final specialization in one or other of the subjects listed above, or in Genetics, until postgraduate years. The degree in Functional Biology affords a balanced study of animals and plants as living organisms, and is a basic training for any biological science.

Permission to take the course must be obtained from the Chairman of the Biological Sciences Group.

Curriculum

Note: Students are reminded that courses chosen in any year may affect their freedom of choice in subsequent years either because of time-table conflicts or because certain prerequisite courses have not been taken.

Students must submit their proposed programme of studies to the Group Chairman and must obtain his approval before they will be permitted to register for this honours course.

Prerequisite. General First Year B.Sc. course with the required standing. Botany 1 or Zoology 1 should, if possible, be taken in preference to Natural Science 1.

2nd Year. As for Honours B.Sc. in Biological subjects. (Botany 1 and Zoology 1 must have been taken during the first two years).

3rd Year Five courses out of:—

- Botany 2
- Physiology 1A or 2A
- Chemistry 3
- Genetics 1
- Zoology 2, 3, 4 (not more than two)
- Bacteriology 1
- Philosophy 1
- Mathematics 2 or 3
- Physics 2P or 3A

4th Year. Five courses out of:—

- Biochemistry 1
- Biochemistry 2
- Bacteriology 1
- Botany 4 and Genetics 2
- Physiology 2A
- Genetics 1 or 3
- Zoology 2, 3, 4 (not more than two)
- Physiology 3 or 4
- Botany 5
- Botany 6
- Chemistry 3

ENGINEERING PHYSICS

This course is intended to train men for research or academic positions, and is open only to students accepted for the Honours Courses in Mathematics and Physics. Subject to the approval of the Chairmen of the Departments of Electrical Engineering and Physics, it is available to

(1) students in the Faculty of Arts and Science entering their third year who have satisfactorily completed the Second Year Honours Course in Mathematics and Physics.

and (2) students in Engineering who have completed the first and second years with first or second class standing in Mathematics and Physics.

Third Year

Mathematics 6 and 7.
Physics 5B, 6B (or 8B), 6C.
Electrical Engineering 113, 114.

Fourth Year

Mathematics 10 or 11.
Physics 5A, 6A, 7A, 7B, 8A, 8B (or 6B), 9.
*Summer Thesis or Shop Work.

The student may now receive the B.Sc. degree with Honours in Mathematics and Physics. In his fifth year he may either proceed towards the M.Sc. degree taking some of the fourth year Electrical Engineering courses as advised by the Chairmen of the Departments of Physics and Electrical Engineering; or, if he has completed the first and second years in Engineering, he may proceed to the degree of Bachelor of Engineering in Electrical Engineering, taking such subjects of the third and fourth year courses in Engineering as are approved by the Faculty of Engineering.

---

*This is required in the case of students proceeding later to the degree of B.Eng.

COURSES OF LECTURES IN ARTS AND SCIENCE

The hours of all General lectures and most of the Honours lectures are indicated. In the case of the other Honours lectures the hours are arranged by the several departments at the opening of the session.

ANATOMY

Professor of Anatomy.....C. P. Martin
Professor of Histology and Embryology...J. C. Simpson
Assistant Professor of Histology.....H. Selye
Lecturer.....A. J. Dalton

Before registering for the following course, students must consult the Chairman of the department to ensure that they are qualified to undertake the work.

MICROSCOPIC ANATOMY

1. Histology.

This course, which is a regular course in the medical curriculum (Anatomy 5), begins on Wednesday, September 4th, 1940. Three three-hour periods a week in the first two terms of the medical year .

Text-book: Bailey, Textbook of Histology.

BACTERIOLOGY AND IMMUNITY

Professor.....E. G. D. Murray
Associate Professor.....Frederick Smith
Assistant Professor.....T. E. Roy
Lecturers.....C. D. Kelly, W. H. Mathews*, C. R. Brewer

(All lectures and laboratory courses are given in the Department of Bacteriology, Pathological Institute.)

Course 1. Elementary Medical Bacteriology and Immunity.

Thirty lectures and 63 hours' practical work, commencing September 4th. Available to Medical and Dental students on the satisfactory completion of their studies in Anatomy, Physiology, Histology and Biochemistry.

Course 1. S. Elementary Bacteriology.

Available to students in the Faculty of Arts and Science and to graduate students.

Thirty-seven lectures and 75 hours of practical work.

* On military service.

COURSE 2. APPLIED MEDICAL BACTERIOLOGY AND IMMUNITY AND THE PROCESSES OF INFECTIOUS DISEASES.

Available to Medical students who have completed one year of clinical work.

COURSE 3. BACTERIOLOGY AND IMMUNITY *for Honours B.Sc.* (daily throughout the year; available only for Honours students in their Fourth year). 160 lectures and 852 hours practical work (full details of this course can be obtained from the Registrar's Office).

Text books:—Hans Zinsser & S. Bayne-Jones, Textbook of Bacteriology (Appleton); R. Muir & J. Ritchie, Manual of Bacteriology (Oxford University Press); R. T. Hewlett & James McIntosh, Manual of Bacteriology (Churchill); T. J. Mackie & J. E. McCartney, Practical Bacteriology (Livingstone); J. W. Bigger, Handbook of Bacteriology (Bailliere Tindall & Cox); W. H. Park & A. W. Williams, Pathogenic Micro-Organisms (Lea & Febiger); Hans Zinsser, Resistance to Infectious Diseases (Macmillan); W. W. C. Topley & G. S. Wilson, The Principles of Bacteriology & Immunity (Edward Arnold & Co.); W. W. C. Topley, An Outline of Immunity (Arnold); M. Langeron, Précis de Microscopie (Masson et Cie); A. Calmette, L. Negri et A. Boquet, Manuel technique de Microbiologie et Serologie (Masson et Cie); D. H. Bergey, Manual of Determinative Bacteriology (Williams & Wilkins); E. O. Jordan, Textbook of General Bacteriology (W. B. Saunders Co.); Frederick P. Gay, Agents of Disease and Host Resistance (Charles C. Thomas); Practical Bacteriology, Haematology and Animal Parasitology, E. R. Stitt, P. W. Clough and M. C. Clough (P. Blakiston Sons & Co.); An Introduction to Bacteriological Chemistry, C. G. Anderson (Macmillan Co. of Canada); A text-book of Medical Bacteriology, D. L. Belding and A. T. Marston (Appleton-Century); The Biology of Bacteria, A. T. Henrici (Heath & Co.).

CURRICULUM FOR B.SC. HONOURS IN BACTERIOLOGY

Prerequisite:—An aggregate standing of high second class must be obtained in the subjects submitted for the First Year and good standing maintained in subsequent years.

The Chairman of the Department should be consulted in selecting subjects to be studied in the Second and Third Years.

The following course of study has been found suitable for most students; but may be modified to suit individual cases.

First Year: First year B.Sc.

Second Year: Physiology 1 A; Histology; Zoology 1; Chemistry 2, 4, and 10.

Third Year: Biochemistry 1a and b; Physiology 2 A; Botany 6 B; Zoology 5 B; Bacteriology 1 S.

Students of Medicine who have done sufficiently well in their Medical Bacteriology and in their Medical studies in general will be admitted to Course 3.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

BIOCHEMISTRY

Professors..... J. B. COLLIP, D. L. THOMSON

Lecturers..... A. H. NEUFELD, O. F. DENSTEDT

1. GENERAL PHYSIOLOGICAL CHEMISTRY.

1. Lectures: Monday, Wednesday, Friday at 9.

Text-books:—Bodansky, Introduction to Physiological Chemistry (Wiley); Cameron, Text-book of Biochemistry (Macmillan); Williams, Text-book of Biochemistry (van Nostrand).

1 L. Laboratory:—Two 3-hour periods weekly, selected from Monday and Friday mornings, Tuesday and Thursday afternoons. A synopsis of the course is issued by the Department.

Note:—This course is given from September 1st to February; students who have passed Chemistry 10 may, however, be permitted to join the class at the opening of the Session in Arts and Science. Prerequisites are Chemistry 2, Physiology 1A.

2. ENDOCRINOLOGY.

Lectures:—Wednesday at 3.

Text-book:—Cameron, Recent Advances in Endocrinology (Blakiston or Churchill).

Note:—Students should have taken, or should take concurrently with this course, Biochemistry 1, Histology 1.

3. ADVANCED BIOCHEMISTRY.

Lectures:—Tuesday, Thursday, Saturday at 9.

Text-book: — Harrow and Sherwin, Text-book of Biochemistry (Saunders); Hawk and Bergeim, Practical Physiological Chemistry (Blakiston).

3 L. Laboratory:—12 hours weekly, times to be arranged. First Term. For Honour students in the Department only.

Note:—Prerequisites are Biochemistry 1, Chemistry 4.

4. NUTRITION.

Lectures:—Monday, Wednesday, Friday at 9. (Second Term).

Text-book:—Sherman, Chemistry of Food and Nutrition (Macmillan).
Note:—Biochemistry 1 is prerequisite.

5. METABOLISM.

Lectures:—Monday, Friday at 2.

5 L. Laboratory:—12 hours weekly, times to be arranged. Second Term. For Honours students in the Department only.

Note:—Biochemistry 1 is prerequisite.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

HONOURS COURSE IN BIOCHEMISTRY

First Year

First Year B.Sc. (Zoology 1 recommended).

Second Year

Physiology 1A,
Chemistry 2, 3, 4 and 10,
Zoology 1 or Mathematics 2.

Third Year

Biochemistry 1, 2 and 4.
Physiology 2A,
Histology 1,
Bacteriology 1S.

Fourth Year

Biochemistry 3 and 5,
Chemistry 5 or other selected subject.

Candidates for the Honours B.Sc. Degree in Biochemistry are expected to attain at least second class standing in all subjects, and 75 per cent in Biochemistry 1.

BOTANY

Professor.....GEORGE W. SCARTH

Assistant Professors.....R. D. GIBBS, E. N. PALMQUIST, MURIEL V. ROSCOE

NATURAL SCIENCE 1.

A conjoint course in Botany, Zoology, and Geology. Lectures Mon., Wed., Fri. at 12.

Professor Palmquist.

1. General Botany.
Tu., Th. at 9; laboratory Tues. 2-5. Professor Gibbs.

2A. General Physiology.
First term: Tu., Th., at 12. Laboratory Wed. 2-5.
Professor Scrath.

2B. Elementary Plant Physiology.
Second term: Tu., Th. at 12. Laboratory Wed. 2-5.
Professors Scarth and Gibbs.

3. The Plant Kingdom.
Mon., Wed. at 11. Laboratory Th. 2-5. Professor Palmquist.

4A. Plant Histology.
First term: Mon., Fri. at 11. Laboratory Fri. 2-5.
Professor Gibbs.

May be continued as *Cytology* (Genetics 2) in the second term at the same hours.

4B. Micro-technique and Histology of Reproductive Organs.
Second term: Wed. at 11. 6 Laboratory hours to be arranged.
Professor Roscoe.

*5. Plant Biochemistry.
Tu., Th. at 11. Laboratory hours to be arranged. 6 hours for Honours Students. Professor Gibbs.

*6. Advanced Physiology.
Fri. 2 and 3. Laboratory hours to be arranged.
Professors Scarth and Palmquist.

*7B. Technical Plant Anatomy.
A special course for Cellulose Chemistry students. Given in alternate years; next in 1941-42.

Second term: Hours to be arranged. Professor Gibbs.

*8. Special Topics.
Prescribed reading, conference and practical work in selected subjects such as Taxonomy of Special Groups, Ecology, Anatomy and Biochemistry. The Staff.

Plant Pathology 33 (Mycology).
Counts as an honours course in Botany. It is normally given at Macdonald College and hours can be arranged for attendance there one day a week. May be given at McGill if sufficient students register.

*Courses for Graduates and Honours Students.

HONOURS COURSE IN BOTANY

First and Second Years: The general B.Sc. curriculum (pp. 255-258) suffices provided Botany I is included. The general second year requirements for Honours in Biological subjects (pp. 259) is a guide in the choice of courses for the second year but greater latitude is allowed as follows: Chemistry 10 is not essential, Chemistry 4 may be postponed from second to third year, an Arts subject (Group III) is optional, and, if Botany I has been taken in the first year, Botany 2 or 3 may be included in the second. Zoology I is recommended.

Third Year: Botany 2 and 3, two other courses in Biological or Cognate subjects and a fifth course from any group of subjects.

Fourth Year: Botany 4A and Botany 4B or Genetics 2B. Two of Botany 5 to 8. Two other approved courses.

The Honours Course in Botany prepares students for graduate work in the departments of Genetics and Plant Pathology as well as Botany. Allowing, as it does for considerable study of other biological subjects it forms also a suitable preparation for the teaching of Biology in schools.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

TEXT BOOKS

General Botany: Chamberlain—Elements of Plant Science (McGraw-Hill); Holman & Robbins—Text-book of General Botany (Wiley); Sinnott—Botany, Principles & Problems (McGraw-Hill); Hill *et al*—Botany (McGraw-Hill); Wilson & Haber—Plant Life (Holt); Smith, Overton *et al*—Gen. Botany (Macmillan); Strasburger—Text-book of Botany (Macmillan); Tansley—Plant Biology (Allen & Unwin).

Histology and Mi crotechnique: Eames & MacDaniels—Introduction to Plant Anatomy (McGraw-Hill); Chamberlain—Methods of Histology (Univ. Chicago Press).

Physiology and Biochemistry: Scarth & Lloyd—General Physiology (Wiley); Text books of Plant Physiology by Maximov (McGraw-Hill), James (O.U.P.), Palladin (Blakiston), Raber (Macmillan), Thomas (Churchill), and Miller (McGraw-Hill); Kostychev—Chemical Plant Physiology (Blakiston); Onslow—Principles of Plant Biochemistry (C.U.P.); Onslow—Practical Plant Biochemistry (C.U.P.); Haas & Hill—Chemistry of Plant Products (Longmans); Morrow and Sandstrom—Lab. Methods in Biochem.

Taxonomy: Gray's Manual (American Book Co.); Spotton *et al*—Wild Plants of Canada (Gage); Marie Victorin—Flore Laurentienne; Pool—Flowering Plants (McGraw-Hill).

Ecology: Braun and Blanquet.—Plant Sociology (McGraw-Hill).

Mycology: Bessy—Text of Mycology (Blakiston).

CHEMISTRY

Professors.....{O. Maass; Harold Hibbert; W. H. Hatcher}
Associate Professors.....{J. B. Phillips; J. H. Mennie; W. H. Barnes}
Assistant Professors.....{C. A. Winkler; R. V. V. Nicholls}
Lecturer.....J. H. Ross
Sessional Lecturer.....A. S. Ross

1. General Chemistry.

Lectures, Mon., Wed., Fri., at 10 and 11.

Section A.—For Matriculants at 10—Professor Barnes.

Section B.—For Beginners at 11—Professor Hatcher.

Text-books:—Hatcher, Introduction to Chemical Science (Wiley); Briscoe, An Introduction to College Chemistry (Houghton Mifflin); Schlesinger—General Chemistry, third edition (Longmans, Green, 1937).

Laboratory (1L), Tu. or Th., 2-5.

Professors Barnes, Nicholls and Demonstrators.

Text-book: — Barnes — General Chemistry Laboratory Manual (Renouf).

2. Organic Chemistry (Elementary) (No. 56 Fac. Eng.).

Tu., Th. at 11.....Professor Hatcher.

Laboratory, three hours, Mon. or Fri. 2-5.

Professors Hatcher, Nicholls and Demonstrators.

Text-books:—Lucas, Organic Chemistry (American Book Co.). Nicholls, An Introduction to Practical Organic Chemistry (Renouf).

Note:—Chemistry 1 and Physics 1 or equivalent are prerequisite to this course.

3. Analytical Chemistry (Elementary) (Nos. 53, 54 Fac. Eng.).

(*a*) Qualitative Analysis.

First term: Tu., Th., at 9; laboratory six hours, Mon., Wed., 2 to 5.

(*b*) Quantitative Analysis.

Second term: Tu., Th., at 9; nine hours laboratory, Mon., Wed., 2 to 5, Sat. 9 to 12.

Text-books:—Curtman, Qualitative Chemical Analysis (Macmillan); Mennie, Laboratory Instruction in Quantitative Analysis.

Professor Mennie and Demonstrators.

4. Physical Chemistry (Elementary).

Mon., Fri., at 12.....Professor Winkler.

Text-book:—Maass and Steacie, Introduction to the Principles of Physical Chemistry, second edition (Wiley).

*5. Organic Chemistry (Advanced I) (No. 65 Fac. Eng.).

Mon., Wed., at 12.

Laboratory (5L) six hours per week.

Professor.....and Demonstrators.

Text-book:—Fieser, Experiments in Organic Chemistry (Heath).

*6. Inorganic Chemistry (Advanced) (No. 72 Fac. Eng.).

Tu., Th., at 10.....Professor Mennie.

Text-book:—Caven and Lander, Systematic Inorganic Chemistry (Blackie & Son).

*7. Physical Chemistry (Advanced I) (No. 66 Fac. Eng.).

Fri., at 12.....Professor Maass.

Text-book:—Nernst, Theoretical Chemistry (Macmillan).

Reference book:—Taylor, Treatise on Chemistry (Van Nostrand).

*7L. Physical and Colloid Chemistry Laboratory (No. 66A Fac. Eng.)

Nine hours.....Professors Maass, Winkler and Demonstrators.

Text-book:—Daniels, Matthews & Williams, Experimental Physical Chemistry (McGraw-Hill).

8. Quantitative Analysis (Advanced I).

First term: Mon., at 11; laboratory twelve hours, Tu., Th., Fri., 2 to 5, and Sat. 9 to 12.

Prerequisite Chem. 3a and 3b.

Professor Mennie and Demonstrators.

---

*Courses for Graduates and Honours Students.

*9. History of Chemistry (No. 74 Fac. Eng.).
Thurs. at 11 ..... Professor Barnes.

Text-book:—Partington, A Short History of Chemistry (Macmillan).

10. Carbohydrates, Fats, Amino-acids, Resins. (No. 58, Fac. Eng.).
Second term: Tu., Th., at 12. Prerequisite Chem. 2.
Professors Hatcher and Nicholls.

*11. Electro-Chemistry. (No. 70 Fac. Eng.).
Mon. at 9 ..... Professor Mennie.

References:—Creighton, Electro-Chemistry (Wiley); Glasstone, Electro-Chemistry of Solutions (Methuen).

*12. Physical Chemistry (Advanced II) (No. 66 Fac. Eng.).
Wed., Fri., at 9 ..... Professor Maass.
Text-book:—As in 7.

13. Inorganic Chemical Technology.
Prerequisite Chem. 1 ..... Professor Phillips.
Optional reading course.

14. Organic Chemical Technology.
Prerequisite Chem. 1 and 2 ..... Professor Phillips.
Optional reading course.

*15. Colloid Chemistry (No. 75 Fac. Eng.).
Tu., at 11 ..... Professor Winkler.

Text-book:—Weiser: Colloid Chemistry (Wiley). Hartman: Colloid Chemistry (Houghton-Mifflin).

16. The Chemistry of Daily Life.
Tu., Th. at 2 ..... Professor Hatcher.

Open to B. A. students without laboratory; also to students in the School for Graduate Nurses, with three hours laboratory to Feb. 28th.

Text-book:—Hatcher, Introduction to Chemical Science (Wiley).

*17 Thermodynamics (No. 76 Fac. Eng.).
First term: Wed. and Fri. at 10 ..... Professor Winkler.
Second term: Wed. at 12, Fri. at 10.

Text-book:—Lewis & Randall: Thermodynamics.

*18. Organic Chemistry (Advanced II).
Second term: Mon., Wed., at 10 ..... Professor .....

*Courses for Graduates and Honours Students.

*19. PHYSICO-ORGANIC CHEMISTRY.

Tues. at 10.....Professors Barnes and Hatcher.

*20. ORGANIC CHEMISTRY (ADVANCED III).

First term: Eighteen hours laboratory per week.

Professor .....

*21. ANALYTICAL CHEMISTRY (ADVANCED II).

Wed. at 11; laboratory 12 hours per week in the second term.

Professor Mennie.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

B.SC. HONOURS COURSE IN CHEMISTRY

This course begins in the Second Year. First Year students intending to take honours in Chemistry must consult the Department before the end of the session. Those who have taken Chemistry IB are normally required to do some additional reading and to pass a qualifying examination at the end of the summer vacation.

Prerequisites: At least second class standing in Chemistry 1 and 1L, Mathematics 1 and Physics 1 or their equivalents.

Second Year: Chemistry 2, 3a, 3b, 4; Mathematics 2 or 3; Physics 3a.

Third Year: Chemistry 5, 6, 7, 7L, 8, 10, 11; Mathematics 3 (if not already taken).

Fourth Year: Chemistry 9, 12, 15, 17, 18, 19, 20 and 21.

Note: — (Students anticipating specialization in Chemistry are recommended to include Intermediate Mathematics in their Junior Matriculation subjects. If they enter by Senior Matriculation they should include Coordinate Geometry in this examination.

CLASSICS

Professors.....{W. D. WOODHEAD
CLIVE H. CARRUTHERS
Associate Professor.....ALEXANDER M. THOMPSON
Assistant Professor.....PAUL F. MCCULLAGH
Lecturer.....E. M. COUNSELL**

GREEK

All students taking Honours in Greek are expected to provide themselves with a grammar, a Greek-English dictionary, a classical dictionary,

*Courses for Graduates and Honours Students.
**On military service.

and an atlas of ancient geography. The following are recommended: Goodwin, Greek Grammar (Ginn & Co.); Liddell and Scott, Greek Lexicon (abridged or intermediate); Kiepert, Atlas Antiquus (Williams and Norgate); Smith, Smaller Classical Dictionary (Everyman Series, Dent).

1A. Beginners' Greek. First Year.
Tu., Th., Sat., at 9.....Professor McCullagh.

Text-books:—Allen, First Year of Greek (Macmillan); Essays, Selected readings of Greek authors in translation.

1B. Greek. First and Second Years.
Mon., Wed., Fri., at 2.....Professor McCullagh.

The Martyrdom of Socrates (Doherty, Clarendon Press) Homer, Iliad vi (Leaf and Bayfield, Macmillan); Odyssey vi (Edwards, Cambridge University Press); Essays; Prose Composition, Sight Translation.

Greek 11, 12 and 13 may be taken by qualified students in the General Course. For further information consult the Chairman of the Department.

Honours Courses in Greek

11. Greek. Second Year.
Tu., Th., Sat., at 9.....Professor Woodhead.

Plato, Apology and Crito, (Burnet, Oxford); Aeschylus, Prometheus Bound (Sikes and Willson, Macmillan); Sight Translation.

12. Greek. Second Year.
Mon., Wed., Fri., at 9.....Professor Carruthers.

Pallas Athene (North, Macmillan); Homer, Iliad 18 (Platt, Blackie); Euripides, Medea (Tyrrell, Macmillan); Essays; selected readings of Greek authors in translation.

13. Greek. Third Year
Tu., Th., Sat., at 12.....

Thucydides vii (Marchant, Macmillan); Sophocles, Oedipus Rex (Jebb, Cambridge University Press); Demosthenes, Philippic i, Olynthiacs i-iii.

14. Greek. Third Year.
Tu., Th., Sat., at 10.....Professor McCullagh.

Herodotus, Selections (Barbour, Heath & Co.); Aristophanes, Clouds (Merry, Clarendon Press); Plato, Selections (Forman, Macmillan); Sight Translation.

15. GREEK. Fourth Year.

Tu., Th., Sat., at 10.....Professor Woodhead.

Aeschylus, Agamemnon; Aristophanes, Birds (Merry, Oxford), Bucolici Græci (Oxford Classical Text).

16. GREEK. Fourth Year.

Mon., Wed., Fri., at 11.....Professor McCullagh.

Aristotle, Ethics (Selections); Plato, Republic (Selections); Sight Translation.

LATIN

All students taking Honours in Latin are expected to provide themselves with a grammar, a Latin-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended:—New Latin Grammar (Allen and Greenough, Ginn & Co.); Lewis, School Dictionary, or White, Junior Students' Latin-English Dictionary; Smith, Smaller Classical Dictionary (Everyman's Series, Dent), Kiepert, Atlas Antiquus (Williams and Norgate).

1. LATIN. First Year.

Mon., Wed., Fri., at 10.....

Silva Latina (J. D. Duff, Cambridge); Latin Prose Composition (Franklin & Bruce, Longmans); Translations at sight.

1A. LATIN. First Year (for more advanced students).

Mon., Wed., Fri., at 10.....Professor Carruthers.

Selections from Latin Prose and Poetry (Harrington and Scott, Ginn & Co.); Latin Prose Composition (Tracy and Law, Clarke Irwin); Translation at sight.

2. LATIN. Second Year.

Tu., Th., Sat., at 12.....Professor Thompson.

Selections from Latin Prose and Verse (Weston, Allyn and Bacon); Elements of Latin Prose Composition (Treadgold, Cambridge).

Third Year Students in the General Course will take Latin 13; Fourth Year Students will take Latin 14.

HONOURS COURSES IN LATIN

11. LATIN. Second Year.

Mon., Wed., Fri., at 11.....Professor Thompson and .....

Catullus (Simpson, Macmillan); The Romans in Britain, a Selection of Latin Texts (R. W. Moore, Methuen).

12. LATIN. Second Year.

Mon., Wed., Fri., at 12.....

Livy xxii (Pyper, Clarendon Press); Virgil, Aenid iv or vi; Horace, Selected Odes (Horace, Oxford Classical Texts), Sight Translation.

13. LATIN. Third Year.

Mon., Wed., Fri., at 9.....Professor Woodhead.

Selections from Pliny's Letters (Westcott, Allyn and Bacon); Roman Elegiac Poets (Harrington, American Book Co.); Sight Translation.

14. LATIN. Third Year.

Mon., Wed., Fri., at 12.....Professor Thompson.

Virgil, Bucolics (Sidgwick), Georgics IV (Sidgwick); Juvenal, Selections (Duff, Cambridge University Press); Prose Composition.

15. LATIN. Fourth Year.

Tu., Th., Sat., at 11.....Professor Thompson.

Seneca, Selected Letters (Summers, Macmillan); Tacitus, Annals i and iv (Furneaux, Smaller Edition, Clarendon Press); Sight Translation.

16. LATIN. Fourth Year.

Tu., Th., Sat., at 9.....Professor Carruthers.

Lucretius (Selections: Sinker, Macmillan); Horace, Satires and Epistles (Rolfe, Allyn and Bacon).

ANCIENT HISTORY

The Civilization of Greece and Rome: Open to students of all years. May be taken as a half-course in the first or second term except by First Year students or students in Honours Classics.

Tu., Th., Sat., at 11.....Professor Carruthers and .....

The full course is described as History 1B. See also under Department of History.

COMPARATIVE GRAMMAR

For Third Year Honours Students.

Tu. 2.30-4.00.....Professor Carruthers.

GRADUATE COURSES IN CLASSICS

See the Announcement of the Faculty of Graduate Studies and Research.

ECONOMICS AND POLITICAL SCIENCE

Professors.....{J. C. Hemmeon
J. P. Day
Assistant Professors.....{John Culliton
E. F. Beach
Lecturer.....Eugene Forsey
Sessional Lecturer.....P. F. Vineberg

1. Elements of Political Economy. Second Year.
Mon., Wed., Fri., at 11.
Honours Section.....Professor Hemmeon.
General Section.....Professor Culliton and Mr. Forsey.

2. Elements of Political Science. Second Year.
Mon., Wed., Fri., at 12.....Mr. Forsey.

3. History of Political Theory. Third Year.
Tu., Th., Sat., at 9.....Mr. Forsey.

4. Labour Problems. Third Year.
First term: Tu., Th., Sat., at 12.....Professor Hemmeon.

5. Money and Banking. Third Year.
Tu., Th., Sat., at 10.....Professor Day.

6. Canada: Geographic, Industrial and Economic Problems. Third Year.
First term: Tu., Th., Sat., at 11.....Professor Culliton.

7. The Government of Canada. Third Year.
Second term; Mon., Wed., Fri., at 3.....Mr. Forsey.

8. Economic Statistics.
Mon., Wed., Fri., at 9.....Professor Beach.

9. History of Economic Theory. Fourth Year.
Tu., Th., Sat., at 10.....Professor Hemmeon.

10. International Trade and Foreign Exchange. Fourth Year.
Mon., Wed., Fri., at 10.....Professor Day and Mr. Vineberg.

11. Public Finance. Fourth Year.
Second term: Tu., Th., Sat., at 12.....Professor Hemmeon.

12. Economic Distribution.
Mon., Wed., Fri., at 11.....Professor Day.

13. TRANSPORTATION. Fourth Year.
Second term: Tu., Th., Sat., at 11.....Professor Culliton.

14. ECONOMIC AND POLITICAL THEORIES AND POLICIES OF THE AUTHORITARIAN STATES. Third or Fourth Years.
Second term: Mon., Wed., Fri., at 2.
Professor Hemmeon and Mr. Forsey.
(Given in 1940-41. Not given in 1941-42.)

15. CORPORATION FINANCE. Fourth Year.
Second term: Mon., Wed., Fri., at 12.....Mr. Vineberg.

16. ECONOMIC GEOGRAPHY OF NORTH AMERICA.
Mon., Wed., Fri., at 11.....Professor Beach.

For additional courses in Economics and Political Science given in the School of Commerce and in Jurisprudence and International Law, see Announcement of the School of Commerce.

HONOURS COURSES

Students taking the full Honours in Economics and Political Science take, in their Second Year, courses 1 and 2, together with three other courses approved by the Department; in their Third Year three full courses (or their equivalent) indicated above, together with one approved course from another department, and in their Fourth Year three full courses (or their equivalent) indicated above, together with one approved course from another department.

Students taking half their Honours in another department (see page 253) may be granted honours in Economics (without Political Science) by taking courses 1, 2, 4, 5, 6, 9 and one of the following 10, 11, 12, 13, or 15, or they may be granted honours in Political Science (without Economics) by taking courses 1, 2, 3, 4, 7, 11, 12, 13 or 14.

Students in the Department of Economics and Political Science are expected to spend a considerable proportion of their time in the preparation of class reports, essays, etc., in addition to the lectures and ordinary reading.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

EDUCATION

Professors.....{JOHN HUGHES, SINCLAIR LAIRD
Assistant Professor.....A. B. CURRIE
Sessional Lecturer.....A. ROBERT GEORGE

1. GENERAL PRINCIPLES OF EDUCATION. Third Year.
Tu., Th., Fri., at 4.

2. METHOD AND SCHOOL ORGANIZATION. Fourth Year.
Mon., Wed., 4-5.30.

METHODS OF TEACHING SPECIAL SUBJECTS (hours to be arranged).

Candidates for the High School Diploma are advised to select at least two of the following options: English, History, Classics, Language Teaching and Learning, Mathematics, Science, Geography, in addition to the compulsory special courses in methods of teaching French, Music and Drawing.

SEMINARS FOR GRADUATE STUDENTS.

Weekly seminars are held (hours to be arranged) for graduate students.

THE TRAINING OF TEACHERS

THE HIGH SCHOOL DIPLOMA

This diploma is valid only in the Protestant Schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this diploma.

Each candidate must (a) make application upon the authorized forms, (b) be a British subject or satisfy the Central Board that he has begun the necessary proceedings to become such, (c) submit a physician's certificate to show that he is in good health and free from physical and mental defects that would seriously interfere with his usefulness as a teacher, (d) be a graduate of an approved University, with degree courses, or their equivalents approved by the Central Board of Examiners, as follows:—

(*a*) *Academic.* Courses for two years in the following subjects:—

First Year—English, French and any three of the following: Histor y Mathematics, Science and Latin.

Second Year—English, French and any three of the following: History, Mathematics, Latin, Science, a second Science.

It is provided, however, (i) that a candidate may omit in a succeeding year any three of these subjects, except English, in which he has taken at least 60% in a previous year, (ii) that a candidate who is beginning an Honours course in the second year is exempt from the foregoing second year requirements.

The Regulations governing the award of the High School Diploma require that candidates shall secure the approval of the Department of Protestant Education for the first two years of the B.A. Course before entering upon Course 1 in Education. Applications for recognition as candidates for the High School Diploma must be made to Dr. W. P. Percival, Secretary, Protestant Central Board of Examiners, Department of Education, Quebec, P.Q., *not later than the July 20th preceding entrance upon Course I.*

Failure to secure such approval may involve refusal by the Department to recognize for the purposes of the Diploma the work done in both Courses 1 and 2.

(*b*) *Professional.*

Compulsory Post-Graduate Year of Professional Training. The University has since 1932-33 instituted, on a voluntary basis, a full year of graduate training for intending High School Teachers. This course is now being made compulsory, according to the following plan:

(1) Students entering the First, Second and Third Years in September, 1940, or thereafter will take this post-graduate year.

(2) Students entering the Fourth Year in the session of 1940-41 will be allowed to qualify for the Diploma under the former regulations, but are strongly recommended to take the post-graduate year if possible.

(3) In session 1941-42 and thereafter every student who desires to proceed to the Diploma will be required to take a post-graduate year of training.

This post-graduate course covers all the present requirements for the High School Diploma together with further work of a professional kind. Candidates for this course are advised to consult the Professor of Education for further particulars; and are requested to do this, wherever practicable, before April 15th, to make provisional arrangements.

Candidates must fulfil the following requirements:—

(1) The successful completion of courses 1 and 2 in the Department of Education.

(2) Successful completion of special courses in methods of teaching French, Music and Drawing. These courses are held in the Montreal High School on Tuesday afternoons throughout the session.

(3) Successful completion of at least fifty half-days of practice teaching and criticism lessons under expert supervision (unless the candidate holds an intermediate diploma or shows an equivalent in successful teaching experience which would be accepted by the Central Board of Examiners).

The course in Practice Teaching is at present divided into three parts. The first part is taken in September preceding the Fourth Year and is carried on in the Montreal primary and/or high schools. Education Course 1 is a prerequisite. The second part of the course is taken on Monday afternoons from October 15th to March 31st and is carried on in the Montreal junior and senior high schools. The third part of the course is taken in May and June after the Fourth Year examinations and is carried on in the Montreal primary and/or high schools. At present candidates are enabled to take advantage of at least seventy-five half-days of Practice Teaching.

ELEMENTARY, INTERMEDIATE, AND KINDERGARTEN DIPLOMAS

The training for these diplomas is given at Macdonald College. (See Macdonald College Announcement).

COURSES FOR TEACHERS OF SPECIAL SUBJECTS

FRENCH. A summer school for teachers of French leading to a Specialist Diploma recognized by the Provincial Department of Education.

KINDERGARTEN ASSISTANTS. A two-session course held in Montreal and leading to a Kindergarten Assistant's Diploma, according to the regulations of the Protestant Committee of the Department of Education. This Diploma is accepted for entrance to the Kindergarten class at Macdonald College. (See Macdonald College Announcement.)

PHYSICAL EDUCATION. (This course is given under the Department of Physical Education. See Announcement of the School of Physical Education).

M.A. IN EDUCATION

For details of the M.A. in Education, see the Announcement of the Faculty of Graduate Studies and Research.

ENGLISH

Professors.....CYRUS MACMILLAN, HAROLD G. FILES
Associate Professor.....A. S. NOAD
Assistant Professor.....T. F. M. NEWTON
Lecturers.....MARY MACKENZIE, FREDA MACGACHEN, A. D. CHAPMAN and ASSISTANTS

1. ENGLISH (LITERATURE AND COMPOSITION).

Sat., at 12. Professor Noad, Miss Mackenzie, Mr. Chapman, Mr. John Dando, Miss Esther England, Miss Margaret Fry, and Assistants.

Section and weekly conferences hours to be arranged.

This course must be taken by students who have failed in English 2 the previous session.

2. ENGLISH (LITERATURE AND COMPOSITION).

General Course.

Tu., Th., and Sat. at 12.....Professor Macmillan, Mr. Chapman, and Assistants.

Weekly conferences hours to be arranged.

ADVANCED COURSES.

Advanced students will be assigned to special sections in which advanced work will be prescribed.

3. ENGLISH COMPOSITION.

Half course. An advanced course open to a limited number of undergraduate students who have completed English 2. Application for permission to take this course should be made at the beginning of the session.

Hours to be arranged.....Professor Files.

4. ENGLISH LITERATURE IN THE NINETEENTH CENTURY.

Tu., Th., Sat., at 11.....Professor Newton.

6. SHAKSPERE (SIX PLAYS).

Mon., Wed., Fri., at 10. First term (Half Course).
Professor Macmillan.

May be taken in two successive years.

7. ENGLISH LITERATURE IN THE EIGHTEENTH CENTURY.

Mon., Wed., Fri , at 12.....Professor Files.
(Not given in 1941-1942.)

8. THE LITERATURE AND CULTURE OF THE RENAISSANCE.

Tu., Th., Sat., at 10.....Professor Noad.
(Not given in 1941-1942.)

9(a) ENGLISH POETRY FROM 1798 to 1850. First term.

9(b) ENGLISH POETRY FROM 1850 TO THE PRESENT TIME. Second term.

Mon., Wed., Fri., at 11.....Professors Macmillan and Noad, and Assistants.

(Not given in 1941-1942.)

9a includes Romantic and early Victorian poetry. 9b includes later Victorian and contemporary poetry.

10. THE ENGLISH NOVEL, from Richardson to the present time, with some reference to foreign work and to related literary types.

Tu., Th., Sat., at 11.....Professor Files.
(Not given in 1940-41).

11(a) ENGLISH LITERATURE, FROM 1450 TO THE DEATH OF SIDNEY. First term.

11(b) ENGLISH LITERATURE (EXCLUSIVE OF SHAKSPERE) FROM 1586 TO 1611. Second term.

Mon., Wed., Fri., at 12.....Professors Noad, Macmillan and Newton.
(Not given in 1940-41).

12. OLD ENGLISH; ENGLISH LANGUAGE AND LITERATURE UP TO THE NORMAN CONQUEST.

Mon., Wed., Fri., at 2.....Professor Newton.

13. TECHNIQUE OF THE DRAMA.

Tu., Th., at 10 a.m.; one laboratory period a week on Mon., Tues., Wed., Thurs., or Fri., 3.30 to 5.30 p.m. as convenient to students.

Miss MacGachen, Professors Macmillan and Files, Miss Dingle and Assistants.

Courses 3, 6, 7, 11 and 19 are recommended to students taking this course.

14. CHAUCER.

First term; Tu., Th., Sat., at 12.....Professor Newton.
(Not given in 1941-1942).

15. AMERICAN AND CANADIAN LITERATURE.

Second term; Mon., Wed., Fri., at 11.....Professors Files and Macmillan.
(Not given in 1940-41).

16. COMPARATIVE LITERATURE.

The influence of English Literature upon the continent of Europe in the 18th and 19th centuries.

Tu., Th., Sat., at 9.....Professor Noad.
(Not given in 1941-1942).

17. COMPARATIVE LITERATURE.

The literary influence of the Continent upon England since the Renaissance.

Tu., Th., Sat., at 9.....Professor Noad.
(Not given in 1940-41).

40-41

18. The English Bible.
First term; Tu., Th., Sat., at 9.
Professor.....and Asistants.
(Not given in 1940-1941).

19(a) English Literature from 1611 to 1660.

19(b) English Literature of the Restoration (1660-1700).
Mon., Wed., Fri., at 12.....Professor Newton.
(Not given in 1940-41).

20. Early English: English Literature from 1200 to 1450.
Tu., Th., Sat., at 12.....Professor Newton.
(Not given in 1940-1941).
Open only to students who have taken Course 12, or its equivalent.

21. Political Satire Since the Renaissance.
First term; Mon., Wed., Fri., at 11.....Professor Macmillan.
(Not given in 1940-41).

22. An Advanced Course in the Technique of the Drama.
Prerequisite:
English 13 or its equivalent.

The attendance in this course is limited to twenty. Application for admission should be made at the beginning of the session. Mon., Wed., Fri., at 12. Two laboratory periods a week, selected from Mon., Tues., Wed., Th., Fri., 3.30 to 5.30 p.m.
Miss MacGachen and other members of the Department.

23. Studies in Literature since 1900. Contemporary authors English and American. Open only to those who have taken English 10 or have received the permission of the Instructor. The registration is limited.
Tu., Th., Sat., at 11.....Professor Files.
(Not given in 1941-1942).

24. Hispanic Contacts with European Literature. A study of relations between the literature of Spain and those of other countries, particularly England and France.
Mon., Wed., Fri., at 3.....Professor Noad.

NOTE

Courses 4, 6, 7, 13, 15, 19, and 21 are open to students in the Second Year. Registration in 6, 13, and 21 is limited.

Honours Courses

Second Year:—Two courses selected from 4, 6, 7, 8, 13, 15, 19, 21.

Third Year:—Four courses.

Fourth Year:—Four courses. A course in a cognate subject may be taken with the permission of the Department.

Compulsory courses for Honours are 12, and two full courses from the following—6, 11a, 11b, 14, 19a.

English Requirements for the Honours Courses in English and Latin, English and French, and English and German.

Second Year:—Consult the Chairman of the Department.

Third Year:—Two courses, chosen with the approval of the Department.

Fourth Year:—Two courses, chosen with the approval of the Department.

Course 12 and one course selected from 6, 11a, 14, and 19a are compulsory.

English Requirements for Honours in English and Other Subjects

Second Year:—Consult the Chairman of the Department.

Third Year:—Two courses chosen with the approval of the Department.

Fourth Year:—Two courses chosen with the approval of the Department.

One full course selected from 12 and 14 is compulsory in either the Third or the Fourth Year.

Final General Examination:—Every candidate for Honours in English or English and another subject, must pass, near the close of his last year, a special general examination, either oral or written, conducted by a committee of the Department.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

FRENCH

Professor.....R. du Roure
Associate Professor.....J. L. Darbelnet*
Assistant Professors.....Mme. Touren Furness, L. d'Hauteserve
Sessional Lecturers.....W. A. G. McAndrew, Mme. P. L. Larivière

Every lecture, even in the First Year, is given in French.

Both oral and written examinations are held on each year's work.

The oral examination (in both General and Honours courses) counts for 50 per cent.

A special section in the First Year is provided if necessary for the students who undertake the courses in French with very little knowledge of the spoken language, but it is not possible to acquire fluency without extra work. Students who are deficient in this respect, and especially those taking French as a continuation subject, are therefore strongly advised to follow the French Summer School course either before or after their First Year.

General Courses

1. General Survey of Literature in the XVIIIth and XIXth Centuries; Composition and History of France. First Year.
Section A. Mon., Wed., Fri., at 9; Section B. Mon., Wed., Fri., at 11.....Professors Furness and d'Hauteserve, Mme. Larivière and Dr. McAndrew.

Texts:—Des Granges, Les grands écrivains français (Hatier); Lavisse, Histoire de France, Cours moyen; Coindreau and Low, French Composition Book (Holt), 1st part; Kastner and Marks, New Course of French Composition, Book 1 (Dent).

Collateral Reading:

(a) General Course:—Maupassant, Contes Choisis; Andre Maurois, Les Silences de Colonel Bramble.

(b) Advanced Course (additional reading):—Jules Romain, Knock ou le Triomphe de la Médecine (The Century Co.); Louis Hémon, Maria Chapdelaine; Saint Exupery, Vol de Nuit.

2. General Survey of French Literature from the Middle Ages Through the XVIth and XVIIth Centuries; and Composition. Second Year.
Section A. Tu., Th., Sat., at 9; Section B, Tu., Th., Sat., at 11. Professors Furness and d'Hauteserve and Dr. McAndrew.

*On military service.

Texts:—Des Granges, Les grands écrivains français (Hatier); Molière, Le bourgeois Gentilhomme; Augier, Le Gendre de Monsieur Poirier; Mérimée, Colomba; Loti, Pêcheurs d'Islande; Coindreau and Low, French Composition Book (Holt) 2nd Part. Kastner and Marks, New Course of French Composition, Book 2 (Dent).

Collateral Reading:—Chanson de Roland (Hatier); Contes et Fabliaux (Hatier); Thêâtre comique de Moyen Age (Larousse); Tristan et Yseult (Piazza).

3. French Literature of the XVIIth Century. Third Year.

Mon., Wed., Fri., at 11.....Mme. Larivière.

Texts:—Chevalier et Audait; Le 17e Siècle (Hachette); Corneille, Le Cid, Horace (Classiques Larousse); Racine, Phèdre, Athalie (Classiques Larousse); Molière, Le Misanthrope, l'Ecole des femmes (Classiques Larousse).

Readings:—Corneille, Le Menteur; Racine, Andromaque; Molière, Le Mëdecin malgré lui; Bossuet, Oraison Funèbre d'Henriette d'Angleterre; Mme. de Sévigné, Lettres choisies; LaFontaine, Fables choisis; Mme. de la Fayette, La princesse de Clèves; St. Simon, Mémoires (extraits). (Classiques Larousse).

4. French Literature of the XVIIIth Century. Third Year.

Mon., Wed., Fri., at 10.....Dr. McAndrew.

Texts:—Lesage, Gil Blas (Classiques Larousse); Marivaux, La Vie de Marianne (Garnier), Le Jeu de l'Amour et du Hasard, Les Fausses Confidences (Hatier, Les Classiques pour tous); Prévost, Manon Lescaut; Voltaire, Candide (Holt); Zaire, Lettres choisies (Hatier, Les Classiques pour tous); Rousseau, La Nouvelle Heloise, Lettres à d'Alembert (Classiques Larousse).

Readings: — Voltaire, Lettres philosophiques, Lesage, Turcaret (Classiques Larousse); Sedaine, Le Philosophe sans le savoir (Hatier, les Classiques pour tous); d'Alembert, Discours préliminaire de l'Encyclopèdie (Hatier, Les Classiques pour tous); Beaumarchais, Le Barbier de Séville (Holt); DuCros, La Société française au 18me siécle.

5. Modern France—Political and Social Institutions. Development of Political, Social, Religious and Philosophical Thought. Third and Fourth Years.

Mon., Wed., Fri., at 12.....Professor du Roure.

7. Literature and Social Ideas in the 19th Century.

Tu., Th., Sat., at 9.....Professor d'Hauteserve.

8. French Literature of the XIXth and XXth Centuries.

Fourth Year.

Mon., Wed., Fri., at 10.....Professors du Roure and Furness and Dr. McAndrew.

Texts:—Romans: Chateaubriand, Atala; Balzac, Le Père Goriot; Paul Bourget, Le Disciple; Pierre Loti, Ramuntcho.

Poésie: Henning, Representative French Lyrics of the XIXth Century (Ginn).

Théâtre: V. Hugo, Hernani; Becque, Les Corbeaux; Rostand, Cyrano de Bergerac; Hervieu, La Course du Flambeau.

Readings:—Chateaubriand, René: Flaubert, Trois Contes: Guy de Maupassant, Contes Choisis; A. Daudet, Le Petit Chose; Anatole France, Le Livre de mon Ami.

Prose Composition:—Ritchie and Moore: Supplement to a Manual of French Composition (Cambridge).

Honours Courses

11. Three Masters of Comedy—Molière, Beaumarchais and Musset.

Second Year.

Tu., Th., Sat., at 10.....Professor Furness.

12. History of the French Language. Third and Fourth Years.

Sat. at 10.....Professor d'Hauteserve.
(Given in 1941-42).

Reference Books:—Darmestetter, Cours de Grammaire Historique, Parts I and II; F. Brunot, Histoire de la Langue Française; Holmes & Schutz, A History of the French Language (Farrar & Rinehart, Inc., N.Y.).

14. History of the French Novel. Third and Fourth Years.

Tu., Th., Sat., at 12.....Professor du Roure.
(Given 1940-41).

15. History of the French Lyrics. Third and Fourth Years.

Tu., Th., at 12.....Professor du Roure.
(Given 1941-42).

Text:—G. N. Henning, Representative French Lyrics of the Nineteenth Century (Ginn).

16. Survey of Contemporary French Literature. Third and Fourth Years.

Mon., Tu., Th., at 5.....Mme. Larivière.

Comparative Literature (English 24): hispanic contacts with European Literature.

Mon., Wed., Fri., at 3.....Professor Noad.

Honours Courses in French

All students taking honours in French are required to take specia courses in Composition in French 2 and, in addition, to take in their third or fourth years French 12, History of the French Language.

Prerequisite:—1.

Second Year:—2 and 11.

Third Year:—Four courses one of which must be a course listed under Honours Courses.

Fourth Year:—Four courses including Course 12, if not previously taken.

Combined Honours Course

Prerequisite:—1.

Second Year:—2 and 11.

Third Year:—Three courses.

Fourth Year:—Two courses including Course 12, if not previously taken.

M.A. Courses

See the Announcement of the Faculty of Graduate Studies and Research.

GENETICS

Professor . . . . . C. Leonard Huskins
Assistant Professor . . . . . (to be appointed)

Natural Science 1.

(Six lectures in the conjoint course.) . . . . . Professor Huskins

1. Genetics and Evolution.*

Principles of Genetics; Human Heredity; Evolution.
Mon., Wed., Fri., at 9; 1 laboratory hour to be arranged.
(Prerequisite:—Elementary Botany *or* Zoology.)
Professor Huskins.

1A. Genetics in Relation to Social Problems.*

1st Term; Mon., Wed., Fri., at 12.
(Prerequisite:—Natural Science 1). Professor Huskins.
(Not given in 1940).

*The Genetics 1 Course is planned for students specializing in Biology or proceeding to Medicine. Genetics 1A is designed especially for students who are interested principally in the social significance of Genetics, and who lack the detailed knowledge of Biology which is necessary for a more intensive study of Genetics and of its relation to other biological sciences.

2. Cytology.

2nd Term., Mon., and Fri., at 11; laboratory Fri., 2-5.
(Prerequisites:—Genetics 1, General Botany *or* Zoology).
Professor Huskins and Dr. H. G. F. Sander.

3. Advanced Cytogenetics.

Wed. 2-5 or to be arranged.
(Prerequisites:—Genetics 1, General Botany *and/or* Zoology).
Professors Huskins and ..... and members of Macdonald College Staff.

4. Biometry.

Applications of statistics to problems in Biology.
1st term; Tue., Thur., Sat., at 10. .....

Zoology 3. Comparative Embryology and Histology.

Given conjointly with the Department of Zoology.
Professors Berrill and Reed.

Honours Course

Students who contemplate graduate studies and research in Genetics or Cytology are advised to take the honours course in Functional Biology or, if they already have special interests, the honours course in the biological department in which their chief interest lies.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

GEOLOGICAL SCIENCES

Professors..... John J. O'Neill, R. P. D. Graham, T. H. Clark
Associate Professors..... J. E. Gill, F. F. Osborne

Natural Science 1 (Botany, Geology, Zoology). A conjoint course outlining briefly the nature and evolution of the earth and its inhabitants.
Mon., Wed., and Fri., at 12.....Professor Clark.

1. General Geology (Eng. 141).

(*a*) *Mineralogy and Petrology.*
(*b*) *Dynamical and Structural Geology.*
(*c*) *Historical Geology.*

In addition to the lectures there are excursions on Saturday mornings for five or six weeks after the term opens; students attending these are

excused from any classes wihich conflict with the excursions. Two hours laboratory; sections will be announced at first meeting.

Mon. and Fri. at 9.....Professor Clark.

Text-books: — Longwell, Knopf, Flint, Schuchert, and Dunbar, "Foundations of Geology" 1938 (Wiley).

2. PHYSIOGRAPHY AND NATURAL RESOURCES OF CANADA.

Tu., at 12, and one laboratory period Th., 2 to 5.....Professor Gill.

3. STRATIGRAPHY.

First term; Mon., Fri., at 11; one hour laboratory, and two full days of field work during October. One half course.
Prerequisite:—1.....Professor Clark.

4. GEOLOGY OF CANADA (Eng. 149).

First term: Wed., at 11.
Prerequisite:—1.....Professor O'Neill.

5. MINERALOGY (Eng. 142).

Tu. and Th., at 9.....Professor Graham.

6. DETERMINATIVE MINERALOGY (Eng. 143).

Two laboratory periods during the second term; Wed., Fri., 2 to 5. Professor Graham.

7. PRACTICAL AND FIELD GEOLOGY (Eng. 147).

Lectures, laboratory, and field mapping.
First term; Th., at 11, and Sat. mornings, 9-12 during first 6 weeks; Tues., 2-5 for remainder of term.....Professor Gill.

8. ORE DEPOSITS (Eng. 148).

Second term: Tu., 10 to 12, Wed. and Th., at 11.
Prerequisite:—7.....Professor O'Neill.

9. OPTICAL MINERALOGY AND CRYSTALLOGRAPHY.

One lecture Mon., at 10 and three hours laboratory period; first term.....Professor Graham.

10. PETROGRAPHY (Eng. 146).

First term: Tu., at 10; laboratory, first term, Fri., 10-1; second term, Sat., 9-12.....Professors Graham and Osborne.

12. PALÆONTOLOGY.

Second term: Mon., Wed., at 11; laboratory, Wed., 2-5, and one full day's field work in April. (One half course).
Prerequisite:—1 or Zoology 1.....Professor Clark.

13. Geological Colloquuium.

This course must be taken by all 4th year students in honours Geology.

Note:—Subjects normally grouped to make full courses; 2 and 4; 3 and 12; 5 and 6; 7 and 8; 9 and 10.

Honours Courses

Second Year:—Geology 1, 5, 6; Botany 1 or Zoology 1; Chemistry 3a; German 4 (if French has already been taken).

Third Year:—Geology 3, 4, 9, 12; Chemistry 3b; Genetics 1; and one or more selected courses as advised by the Department.

Fourth Year:—Geology 2, 7, 8, 10, 13; Chemistry 4; Physics 12; and one or more selected courses as advised by the Department.

Note:—The selected courses in the Third and Fourth Years permit the student to concentrate on some branch of Geology in which his particular interest lies.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

GERMAN

Associate Professor.....W. L. Graff
Lecturers.....Miss B. Meyer, J. R. Beck

Courses 1 to 7 inclusive are carefully graded and closely interrelated. Hence, their choice by any student must take account of his knowledge of German and is subject to the approval of the Department.

1. German Language. (Beginners' B.A. Course).

Tu., Th., Sat., at 9.....Mr. Beck and Miss Meyer.

Texts:—Schinnerer, Beginning German (Macmillan, Toronto); P. Hagboldt, Anekdoten und Erzählungen (Heath & Co.); Kischwitz, Deutsche Fibel (Crofts, New York).

Students intending to proceed to Course 5 from the above must have obtained a First Class.

Those intending to proceed to Course 7 must have obtained a First Class and are required to study during the summer the following texts:—Viebig, C., Der Gefangene (Crofts); Kästner, Emil und die Detektive (Holt & Co.); Schrakamp, Ernstes und Heiteres (A.B. Co.).

2. GERMAN LANGUAGE.

Tu., Th., Sat., at 10.....Professor Graff and Miss Meyer.

Texts:—Chiles, German Composition and Conversation (Ginn); E. Hohrath, Hannelore erlebt die Grosstadt (Crofts & Co.); H. Jäger, Moderne Einakter (Crofts & Co.); Fleissner and Mentz-Fleissner, Kleine Anthologie deutscher Lyrik (Crofts & Co.); Schiller, Das Lied von der Glocke (Heath & Co.).

Private Reading:—P. Hagboldt, Eulenspiegel und Münchhausen.

3. GERMAN LANGUAGE. (Beginners' B.Sc. Course).

Tu., Th., Sat., at 10 or 11.....Mr. Beck and Miss Meyer.

Texts:—Schinnerer, Beginning German (Macmillan, Toronto); P. Hagboldt, Anekdoten und Erzählungen (Heath & Co.); Fiedler and Sandbach, A First German Course for Science Students (Oxf. Univ. Press).

Students intending to proceed from Course 3 to an Arts Course must have obtained a first or high second class and are required to read during the summer Koischwitz, Deutsche Fibel (Crofts, N.Y.).

4. GERMAN SCIENCE READING COURSE. Second Year.

Mon., at 5.....Mr. Beck.

For students who have matriculated in this language or have taken it in the First Year.

Texts:—Curts, Readings in Scientific and Technical German (Holt & Co.).

5. GERMAN LANGUAGE.

Mon., Wed., Fri., at 11.....Miss Meyer.

Texts:—Osthaus & Biermann: German Prose Composition, (American Book Co.); Storm, Immensee (Ginn); Schiller, Maria Stuart (Holt); Porterfield, Modern German Stories (Heath);

PRIVATE READINGS:—

Riehl, Der Fluch der Schönheit (Heath); Schnitzler, Der Blinde Geronimo und sein Bruder (Heath & Co).

7. GERMAN LANGUAGE AND LITERATURE.

Mon., Wed., Fri., at 12.....Mr. Beck.

Texts:—Whitney and Stroebe, Advanced German Composition (Holt & Co.); Goethe, Egmont (Holt); Lessing, Nathan der Weise (A.B. Co.); O. Koischwitz, Reise in die Literatur (J. B. Lippincott Co., N.Y.).

Private Readings:—

Th. Mann, Tonio Kröger (Crofts & Co.); Grillparzer, Der arme Spielmann (Heath & Co.).

No student who in his First Year took German 1 can take course 7 unless he has completed the summer work as given under course 1.

German Conversation:—Students of the Second Year intending to continue German in the Third Year must attend a class in Oral German (one hour a week) until in the Professor's opinion they have reached a satisfactory standard.

N.B.—In order to be admitted to the following courses a student must know German well enough to understand lectures delivered in German and express himself in German with some degree of fluency and correctness.

8. German Literature in the Eighteenth Century.

Mon., Wed., Fri., at 9.....Mr. Beck.

Texts:—Lessing, Emilia Galotti (Ginn); Goethe, Iphigenie; Schiller, Wallenstein; Hans Roehl, Geschichte der deutschen Dichtung (Teubner, Berlin); Ehrke's Guide to Advanced German Prose Composition (Oxford).

Private Readings:—Lessing, Minna von Barnhelm; Goethe, Urfaust; Schiller, Kabale and Liebe.

9. German Literature in the Nineteenth Century.

Mon., Wed., Fri., at 9.....Professor Graff.

The important literary movements and writers of the 19th century will be studied and discussed. Collateral readings.

10. From Naturalism to Expressionism.

Professor Graff.

Three hours to be arranged. Prerequisites: German 8 and 9.

11. Middle High German Language and Literature.

Two hours, to be arranged. (Given in 1940-41).....Mr. Beck.

Texts:—Bachmann, Mittelhochdeutsches Lesebuch (Fæsi and Beer. Zürich); Behaghel, Die Deutsche Sprache (Freytag, Leipzig).

12. Aus der Geschichte der deutschen Lyrik von Goethe bis in die Neuzeit.

One hour.....Professor Graff.

Text:—F. Bruns, Die Lese der deutschen Lyrik (F. S. Crofts & Co.).

13. Geschichte des deutschen Trauerspiels.

Two hours, to be arranged. (Given in 1941-42)....Professor Graff.

Honours Courses

Honours students in German are strongly recommended to take, in their Second or Third Year, as one of their general courses, Course 1 or 2 of the Department of Philosophy.

The selection of Honours Courses in German must be approved by the Department.

Students honouring in the Second Year must choose two full courses from the following: German 5, 7, 8.

In the Third and Fourth Years one full course must consist of either German 11 and 12 or German 12 and 13. The other full course must be chosen from German 8, 9 or 10.

Students may begin Honours in German in the Third Year, if in the opinion of the Department they are qualified to do so.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

HISTORY

Professor.....C. E. Fryer
Associate Professor.....E. R. Adair
Assistant Professor.....C. C. Bayley
Lecturer.....J. I. Cooper

Courses for General Students

1A. European Civilization Since the Roman Empire and its Expansion Overseas. First Year.

Tu., Th., Sat., at 11.....Professor Bayley and Dr. Cooper.

or

1B. Ancient History. First Year.

Tu., Th., Sat., at 11*.....Professor Carruthers and .....

Students in History desiring to take course 1B should read the notes below on Continuation and Honours Courses in History.

2. General History of North and South America. Second Year.

Mon., Wed., Fri., at 9.....Professor Adair.

3. History of the British Empire. Second Year.

Tu., Th., Sat., at 10.....Dr. Cooper.

With the consent of the Department, this course may be taken by Third Year students.

*See also under Department of Classics.

4. History of Canada. Third Year.
Tu., Th., Sat., at 9.....Dr. Cooper.
With the consent of the Department, this course may be taken by Fourth Year students.

5. English Political and Industrial Life in the Nineteenth Century. Fourth Year.
Mon., Wed., Fri., at 11.....Professor Fryer.
With the consent of the Department, this course may be taken by Third Year students.

6. History of Europe, 1789-1914. Fourth Year.
Mon., Wed., Fri., at 12.....Professor Fryer.

Courses Specially for Honours Students

Prerequisite:—History 1.

7. Mediæval Life and Institutions. Second Year.
Tu., Th., Sat., at 10.....Professor Bayley.

8. History of Modern Europe to 1789. Third Year.
Mon., Wed., Fri., at 12.....Professor Adair.

9. English Constitutional History. Fourth Year.
Tu., Th., Sat., at 9.....Professor Bayley.

10. History of Economic and Social Conditions, with Special Reference to England. Fourth Year.
Mon., Wed., Fri., at 10 *or* 11, as arranged.....Professor Adair.

Special Subjects:—

England in the Age of Wyclif.

The Reign of Charles I.

William Pitt and the Conquest of Canada.

England, 1832-46; a study in Political Reconstruction. (Omitted 1940-41).

The Genesis of the British Parliamentary Labour Party. (Omitted 1940-41).

Social and Industrial England since the World War. (Omitted 1940-41).

A Selected Topic in Canadian History 1867-1896.

A Period or Aspect of Ancient History.*

*For courses in Ancient History, see under the Department of Classics.

NOTE.—A choice of one of these special subjects for continuous study by Honours students during their Third and Fourth Years is made in consultation with the Department. Students will be expected to acquire a general knowledge of the subject selected and to make a more intensive study of one of its aspects.

General students taking History as a continuation subject may, if they so desire, take course 1B (Ancient History) in their first year. If they do so, they must take History 1A in their second year, and either History 2 or History 3 in their Third Year.

Unless the special consent of the department is obtained, History 1A must be taken as a prerequisite to History 2 or History 3 for all students taking History as a continuation or Honours subject.

Before being admitted to Honours standing in History, students are expected to have a knowledge of French and of Latin. The latter requirement may be satisfied by a First Year college course following matriculation Latin, or, at the discretion of the Department, by high ranking in Latin in a matriculation examination.

Students taking Honours in History will take the following courses in 1940-41:—

First Year: History 1A, and four courses in other subjects.

Second Year: History 2 and 7.
Three approved courses in other subjects, at least one of which must be a foreign language.

Third Year: History 4 and 8.
An approved course in Philosophy, Economics, Latin, French, *or* German. One of the special subjects in History.

Fourth Year: History 6, 9, and 10.
Continuation of special subjects begun in 1939-40.

Students taking Honours in History and another subject will take the following courses in History in 1940-41.

Second Year: History 2 and 7.

Third Year: History 4 and 8.

Fourth Year: History 9, and either 6 or 10.

NOTE.—In addition to the examination on the subjects taken up in the last year, Fourth Year Honours students have a general examination paper on the history studied by them in their four years.

GRADUATE COURSES

See the Announcement of the Faculty of Graudate Studies and Research.

LAW

Professor.....P. E. CORBETT

THIRD AND FOURTH YEARS

JURISPRUDENCE.—An enquiry into the nature and function of Law, its relation to society and the state, and a review of the principal institutions of a state.

Mon., Wed., Fri., (hour to be arranged).....Professor Corbett.

INTERNATIONAL LAW.—An enquiry into the origin and nature of International Law, its scope and authority, and its history and contemporary development.

Mon., Wed., Fri. (hour to be arranged).....Professor Corbett.

These courses are open to third and fourth year students in the Faculty of Arts and Science.

MATHEMATICS

Professors.....C. T. SULLIVAN, N. B. MACLEAN, A. H. S. GILLSON†, W. L. G. WILLIAMS

Associate Professor.....H. TATE

Assistant Professor.....G. PALL*

Lecturer.....W. B. ROSS

Sessional Lecturer.....E. ROSENTHALL

1. MATHEMATICS. (For First Year students).

Geometry and Trigonometry. Mon., Wed., Fri., at 9 or 11, first term.
Algebra. Mon., Wed., Fri., at 9 or 11, second term.

Five ordinary sections: Professors MacLean, Williams, Tate, Dr. Ross. One advanced section, Mon., Wed., Fri., at 9.

Text-books:—Hall and Knight, Elementary Trigonometry, revised Canadian edition; L. L. Conant, Plane and Spherical Trigonometry; H. K. Hughes and G. T. Miller, Trigonometry; Carslaw, Plane Trigonometry, Hall and Stevens, School Geometry, Parts I-VI; W. G. Borchardt, A Second Course in Algebra (Rivingtons).

First or Second class standing in course 1 is necessary for course 3 or 4.

A knowledge of courses 3 and 4 is a prerequisite for courses 6 and 7.

---

†On military service.

*On leave of absence.

Ordinary students taking Mathematics as a continuation subject are advised to take the following courses: Mathematics 2 in the second year, Mathematics 15 of the School of Commerce (Elements of Coordinate Geometry and Calculus) in the third year, and 3 or 4 or 8 in the fourth year.

1B. PRACTICAL MATHEMATICS.

Two lectures and one tutorial weekly during first term (time to be arranged).....Dr. Ross.

2. ELEMENTARY ANALYSIS. (For Second Year students).

Mon., Wed., Fri., at 10.....Dr. Ross.

3. CALCULUS. (For Second Year and other qualified students).

Mon., Wed., Fri., at 10.....Professor Sullivan.

Text-book:—Lamb, Infinitesimal Calculus.

4. ALGEBRA AND ANALYTICAL GEOMETRY. (For Second Year and other qualified students).

Tu., Th., Sat., at 12.....Dr. Ross.

Text-book:—C. Smith, Conic Sections.

5. SPHERICAL TRIGONOMETRY AND ASTRONOMY. (For Second Year and other qualified students.)

Spherical Trigonometry: One hour, first term....Professor Sullivan.
Astronomy: Two hours, second term.

Text-books:—Murray, Spherical Trigonometry; Barlow and Bryan, Astronomy (London University Tutorial Press); Moulton's Astronomy.

This course can be combined with Physics 4 to form a three-hour course for the year.

6. ANALYTICAL GEOMETRY OF THREE DIMENSIONS; CURVE TRACING. (For Third Year and other qualified students).

Three hours.....Professor Sullivan.

Text-books:—C. Smith's Solid Geometry: R. T. J. Bell, Geometry of Three Dimensions.

7. INFINITESIMAL CALCULUS AND DIFFERENTIAL EQUATIONS. (For Third Year and other qualified students).

Three hours.

Text-books:—Lamb, Infinitesimal Calculus; Osgood, Advanced Calculus; Forsyth, Differential Equations (Macmillan); Piaggio, Differential Equations (Bell).

8. Advanced Algebra and Theory of Interest. (For Third Year and other qualified students).

Three hours, (Tu., Th., Sat., at 11).....Professor Tate.

Course 8 is a prerequisite to course 9.

Text-books:—Barnard and Child, Higher Algebra; Tate, Mathematical Theory of Interest.

9. Modern Higher Algebra. (For Fourth Year and other qualified students).

Three hours.

Text-book:—Bocher, Introduction to Modern Higher Algebra.

10. Introduction to the Theory of Functions of a Real Variable. (For Fourth Year and other qualified students).

Three hours.....Professor Williams.

Text-books:—Hardy, Course in Pure Mathematics (Camb. Univ. Press); Carslaw, Fournier's Series and Integrals.

11. Introduction to the Theory of Functions of a Complex Variable. (For Fourth Year and other qualified students).

Three hours.....Professor Sullivan.

Text-books:—MacRobert, Functions of a Complex Variable; Whittaker and Watson, Modern Analysis; Appell and Lacour, Fonctions Elliptiques (Gauthier-Villars).

For Courses in Commerce open to students in Arts and Science, see Announcement of School of Commerce.

Honours Courses in Mathematics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2.

Second Year:—Mathematics 3, 4, and Mathematics 5 and Physics 4.

Third Year:—Courses 6, 7, 8, and a fourth course (in any subject) approved by the Department.

Fourth Year:—Courses 9, 10, 11, and a fourth course (in any subject) approved by the Department.

Honours Courses in Mathematics and Physics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2.

Second Year:—Mathematics 3, 4, 5; Physics 3, 4. (Chemistry and English recommended as other subjects to be chosen).

Third Year:—Mathematics 6, 7; Physics 5, 6.

Fourth Year:—Mathematics 10, 11; Physics 7, 8, 9, 10.

Graduate Courses in Mathematics

See the Announcement of the Faculty of Graduate Studies and Research.

MUSIC

DEAN OF THE FACULTY OF MUSIC:—DOUGLAS CLARKE

The courses in Music are open to those who have the qualifications for the regular courses of Music given in the Faculty of Music. The following courses may be taken as electives in the Faculty of Arts and Science. The first course of Music is for those who have offered Music as a Matriculation subject.

1. (a) *Harmony.*

The work covered is that required for the Intermediate Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music).

Wed. at 4.15 or Sat. at 10.

Text-books:—MacPherson, "Rudiments of Music"; Kitson, "Elementary Harmony"—Part I.

(*b*) *Form and Analysis.*

Phrase. Sentence. Sequence. Cadence. Accent. Rhythm. Time. Melody. Modulation. Early Dance Forms. Suites—with special consideration of the Minuet and Trio.

Tues. at 4.

Text-books:—MacPherson, "Form in Music"; MacPherson, "Studies in Phrasing and Form"; R. O. Morris, "Structure of Music".

(*c*) *History.*

Mon. at 4.

Text-book:—Stanford & Forsyth, "A History of Music".

(*d*) *Aural Training.*

Development of a mental appreciation of scale degrees; recognition of intervals and simple rhythms; quality of tone.

Thurs. at 4.

2. (a) *Harmony.*

The work covered is that required for the Senior Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music).

Tues. at 5 or Sat. at 9.

Text-books:—MacPherson, "Rudiments of Music", "Practical Harmony"; Kitson, "Elementary Harmony"—Part II.

(*b*) *Form and Analysis.*

Sonata form, Sonata Rondo Form, standard type of classical sonatas, quartets, symphonies. The overture.

Thurs. at 5.

Text-books:—In addition to books on Form recommended for First Year: Essays in Musical Analysis—Tovey.

(*c*) *History.* (1600-1900).

Wed. at 5.

Text-books:—Colles, Growth of Music; Fellowes, The English Madrigal; Scholes, Listeners' History of Music—Part 3.

General Reading:—Parry-Williams, A Music Course; Hadow, Sonata Form; Finney, A History of Music.

(d) *Aural Training.*

Detecting major and minor chords, diminished and augmented triads. Dominant 7ths. Dictation, with modulation to neighbouring keys. Sight reading in two and three parts. Chromatic intervals.

Mon. at 5.

3. (a) *Harmony and Counterpoint.*

Harmony: Vocal in three and four parts, up to chords of major and minor ninth and secondary sevenths, including the use of suspensions and passing notes (harmonizing of melodies and figured and unfigured bass, the completing of a harmonic sentence from a given pattern).

Text-books:—Macpherson, Melody & Harmony; Buck, Unfigured Harmony.

Counterpoint: In two parts—up to, and including 5th Species.

Text-books:—Gladstone, Strict Counterpoint; Kitson, Counterpoint for beginners.

Thurs. 4-5.30.

(*b*) *Form and Analysis.*

Origin, development of the Fugue. Analysis of some of the "48" and better known organ fugues. Comparison of fugues by various composers.

Wed. at 3.

Text-books:—Gray, Bach's Forty-eight; Macpherson, Bach's Forty-eight (A Commentary); Prout, Fugue.

(*c*) *History.*

Mon. at 3.

Text-books:—Madeley Richardson, The Mediaeval Modes; Parry, The Art of Music; Newman, Richard Strauss; Dyson, The New Music; Dyson, The Progress of Music; Bacharach, The Musical Companion.

(d) *Chamber and Orchestral Music and Score Reading* (with gramophone).

Chamber Music and its development. Music for viols. The string quartet. History of the developments of the orchestra. Haydn's orchestra. Beethoven's orchestra. Description of orchestral instruments. The symphony.

Tues. at 3.

Text-books:—Dunhill, Chamber Music; Dunhill, Mozart's String Quartets; Marliave, Beethoven Quartets; Carse, Orchestral Conducting; Jacob, Orchestral Technique; Tovey, Essays in Analysis (Vol. 1).

4. (a) *Harmony.*

Instrumental, in three and four parts. Figuration.

Mon. at 2.

Text-book:—Morris, Foundations of Practical Harmony and Counterpoint.

(b) *Counterpoint.*

Strict (covering all species)—up to three parts. Answers to fugue subjects.

Mon. at 3.

Text-book:—Madeley Richardson, Fundamental Counterpoint.

(c) *History.*

Tues. at 3.

Text-books:—Tovey, The Main stream of Music; Walker, History of Music in England; Nef, An outline of the History of Music; Ewen, from Bach to Stravinsky; Bauer, Twentieth Century Music.

(d) *Form and Analysis.*

Analytical study of great works.

Thurs. at 3.

Text-books:—On above Musical Pilgrim Series, (Oxford Univ. Press.); Tovey Essays in Musical Analysis; Vaughan Williams, National Music; Terry, Bach, The Historical Approach; Tovey, A Companion to Beethoven's Sonatas; Markham Lee, Brahms Orchestral Works; Browne, Brahms—The Symphonies (Musical Pilgrim).

(e) *Orchestral and Chamber Music Repertoire* (with gramophone).

Critical listening. Extended Chamber Music with solo instruments.

Wed. at 3.

Text-books:—Forsyth, Orchestration; Scherchen, Handbook of Conducting; Tovey, Essays in Music Analysis—Vol. 1; Browne, Brahms' Symphonies.

PHILOSOPHY

Professor ..... { ..... R. D. MACLENNAN
Visiting Professor ..... R. KRONER
Assistant Professor ..... J. S. FULTON
Lecturer ..... C. CURRIE

GENERAL COURSES

1. INTRODUCTION TO PHILOSOPHY. Second Year.

An introduction to philosophical thought on the world and man. There is included a short study of logic, deductive and inductive, and discussion of the relations of science, philosophy and religion.

Reading:—*Dialogues of Plato* (Modern Library); *Selections* from *Descartes*, *Berkley* and *Hume* (Scribner's Modern Students' Library); *The Traditional Formal Logic* (Sinclair, Methuen).

Once a week the class meets in tutorial groups.

Tu., Th., Sat., at 10 ..... Professors Maclennan, Fulton and Mr. Currie.

2. ETHICS. Second Year.

The main types of ethical theory.

Reading:—Plato's *Republic* (Golden Treasury); Butler's *Fifteen Sermons* (Matthews, Bohn Library, Bell); Aristotle, *Politics*, Hobbes, *Leviathan* and Rousseau, *Social Contract* (Everyman Library); Kant, *Fundamental Principles of the Metaphysics of Morals* (T. H. Abbot, Longmans).

Mon., Wed., Fri., at 11 ..... Professor Maclennan.

3A. HISTORY OF GREEK PHILOSOPHY. Third and Fourth Years.

First term. Reading: Dialogues of Plato (Modern Library); Aristotle (ed. Wheelwright, Doubleday, Doran).

Prerequisite—Philosophy 1.

Mon., Wed., Fri., at 12 ..... Professor Fulton.

3B. READINGS IN PLATO AND ARISTOTLE.

Second term. Aristotle's *Ethics;* Plato, *Dialogues* (Random House).

Prerequisite—Philosophy 3A.

Mon., Wed., Fri., at 12 ..... Professor Fulton.

4. HISTORY OF MODERN PHILOSOPHY.

Selections from *Descartes*, *Hume*, *Spinoza* and *Hegel* in Scribners Modern Students' Library; *Leibni's Philosophical Writings* (Everyman); Kant, *Critique of Pure Reason* (tr. N. Kemp Smith, abridged edition, Macmillan); Bergson, *Creative Evolution* (Holt).

Tu., Th., Sat., at 12 ..... Mr. Currie.

ADVANCED COURSES

5. Political and Social Philosophy.

Seminar on human relations, law, the State, international relations, and ethics. Rousseau (*Social Contract*, Everyman, Dent; and other writings); Plato (*Republic and Laws*); *Aristotle* (*Politics* and *Ethics*, Everyman); various authors of the 17th and 18th centuries, notably Hobbes, Kant (*Metaphysic of Morals*, Longmans); Hegel; T. H. Green (*Principles of Political Obligation*); Karl Marx and contemporary authors. Various topical discussions will be held on Law, Freedom, Sovereignty, Democracy, Authoritatian Politics, Literature and Ethics, Religion and the State.

The students will make some special investigations of their own in this course.

Prerequisite: Philosophy 2. Students of advanced standing in economics and political science, or other cognate subjects, are permitted to take this course without fulfilling the above prerequisite, but only with the express consent of the lecturer.

Th., 4.00—6; and an hour to be arranged.....Professor Kroner.

6. Problems of Logic and Metaphysics.

An examination of fundamental problems of logic, theory of knowledge, and metaphysics will be made on the basis of selected readings in the works of Bosanquet, Stebbing, Dewey, Russell, C. I. Lewis, Alexander, Whitehead and other contemporary authors.

Prerequisites:—Philosophy 1 and 4.

Mon., Wed., Fri., at 10.....Professor Fulton.

7. Readings in the Classics of Modern Philosophy.

Modern Classics. Reading:—Spinoza, Leibniz, Kant and Hegel.

Hours to be arranged.....Mr. Currie.

Prequisites: 1 and 2 or 3 or 4 or 5.

8. Seminar on Contemporary Philosophy.

Subject for 1940-41: Contemporary Ethics.

Time to be arranged.....The Staff.

HONOURS COURSES

The Plan of Honours in Philosophy.

Students taking an honours course are to study the subject of philosophy as a whole. They are expected to master a certain body of essential reading some of which may not be dealt with in any lecture courses and conferences. At the conclusion of the Fourth Year there is a comprehensive examination on the total work done in the field of philosophy. The examination will consist of three papers which take the place of examinations in the courses of the Fourth Year.

Students pursuing a combined Honours Course are examined on such portion of the general reading and courses as is pertinent to the combined subject-matter of their course of study. They take two of the comprehensive examinations instead of examinations in the courses of their Fourth Year.

The General Reading is as follows:

Reading for the Field of Philosophy

Plato: *Republic, Thaetetus, Timaeus.*
Aristotle: *Nichomachean Ethics, Politics, De Anima.*
Descartes: *Meditations,* etc.
Spinoza: *Ethics.*
Leibniz: *Philosophical Writings* (Everyman).
Locke: *Essay on Human Understanding.*
Newton: *Principia, Bk. 3, System of the World, Rules of Reasoning in Philosophy and Conclusion.*
Berkeley: *Principles and Dialogues.*
Hume: *Dialogues.*
Kant: *Critique of Pure Reason. Critique of Practical Reason.*
Hegel: *Introduction to Phenomenology of Mind,* and to *Philosophy of History.*
Bergson: *Creative Evolution.*
Whitehead: *Science and the Modern World, Adventures of Ideas.*

The course requirements are as follows:

Second Year:—Philosophy 1.

Third Year:—Three general courses, 2, 3 and 4.

Fourth Year:—Three advanced courses and one full course in another subject approved by the department.

For any combined honours course, a total of five full courses including Philosophy 1.

Philosophy as a Continuation Subject

Students interested in studying philosophy in conjunction with other subjects are advised to take their courses in Philosophy in the sequences indicated below in connection with the other studies:

1. Philosophy with one or more studies in the social sciences, e.g., economics, history, politics, psychology and sociology.
   Philosophy 1, Philosophy 2, Philosophy 3, Philosophy 5.

2. Philosophy with one or more studies in the natural sciences, e.g., biochemistry, botany, chemistry, genetics, physics, zoology.
   Philosophy 1, Philosophy 4 or 6.

3. Philosophy with studies in English or Foreign Literature.
   Philosophy 1, Philosophy 2, Philosophy 3, Philosophy 4.

PHYSICS

Professors.....{A. Norman Shaw, D. A. Keys, J. S. Foster}
Associate Professors.....{H. E. Reilley, W. H. Watson}
Assistant Professor.....D. K. Froman
Lecturers.....{H. G. I. Watson, F. R. Terroux, ...}
Instructor in Laboratory Technique.....H. T. Pye

1. General Course.

Mon., Wed., and Fri. at 2, or at 3 (*by arrangement*); laboratory, Tu. 2-4, or Wed. 4-6, or Th. 2-4.

Professors Keys, Froman and Demonstrators.

Text-books:—College Physics, Mendenhall, Eve, and Keys (Heath and Co.); An Elementary College Course in Experimental Physics (Renouf Publishing Co.).

1B. Outline of Physical Science*. (Open to B.A. and B.Com. students).

An introductory course in physics and astronomy, suitable for students taking the diploma in education, and also those interested in the influence of physical science upon other branches of learning.

Mon., Wed., and Fri., at 12; (laboratory, 10 periods only, Wed. 4-6, or by arrangement).

Reference books:—College Physics, Mendenhall, Eve and Keys (Heath); Astronomy and Astrophysics, Vols. I and II, Russell, Dugan and Stewart (Ginn).

2P. General Course (Advanced). A continuation course in general physics, primarily for biological and pre-medical students. (Physics 1, or equivalent, prerequisite.)

Tu., Th. at 3, Wed. at 11, laboratory Wed. 2-4 or by arrangement.

Professor Reilley and Demonstrators.

Text-books:—Duff's Text-book on Physics (Blakiston); Laboratory Manuscripts (mimeographed). *Reference books:*—Daniel's Text-book on Medical Physics (Macmillan); Jones, Electricity and Magnetism (Lewis).

---

*Not offered in 1940-41.

2. HEAT, SOUND AND LIGHT. (Engineering 311, Lab. 312.)

Tu., Th., Sat. at 11; laboratory, Wed. 11-1, or Wed. 2-4.

Professors Shaw and Froman, Dr. Terroux, and Demonstrators.

Text-books:—Duncan and Starling's Heat, Light and Sound (Macmillan); Heat, Sound and Light Laboratory Manual (Renouf Publishing Co.).

3A. ELECTRICITY AND MAGNETISM. (Engineering 315, Lab. 316.).

Mon., Fri., at 11; laboratory, Mon. or Fri. 2-5; also weekly voluntary tutorial.

Professor Reilley, Dr. H. G. I. Watson, and Demonstrators.

Text-books:—Zeleny, Elements of Electricity (McGraw-Hill); Electricity and Magnetism Laboratory Manual (mimeographed).

Reference book:—Starling's Electricity and Magnetism (Longmans).

3B. STATICS AND HYDROSTATICS.

Wed. at 9.....Professor Reilley.

Text-book:—Loney's Statics and Dynamics (C.U.P.).

4. DYNAMICS.

Two hours, first term; one hour, second term. (A half course combined with Mathematics 5 to form a three-hour unit.

Tu., Th., at 9.....Dr. Terroux.

Text-book:—Loney's Statics and Dynamics (C.U.P.).

5A. PROPERTIES OF MATTER.

Tu. at 10; laboratory Fri. 2-5.....Dr. Terroux.

Text-book:—Newman and Searle, "General Properties of Matter" (E. Benn Co.).

Reference book:—Champion and Davy, Properties of Matter (Blackie).

5B. STATICS, DYNAMICS OF A PARTICLE AND RIGID DYNAMICS.

Wed. at 9, Fri. at 9, Tutorial problem hour, Mon. at 12.

Professor W. H. Watson.

Text-books:—Lamb's Statics and Lamb's Dynamics (C.U.P.).

6A. ELECTRICAL MEASUREMENTS. (Graduate A.).

Tu., at 2, Wed., at 2, first term only; laboratory, Tu., 3-5, Wed., 3-5, both terms.

Professor W. H. Watson and Dr. H. G. I. Watson.

Reference books:—Law's Electrical Measurements (McGraw-Hill), Pidduck's Treatise on Electricity (C.U.P.); Hague's Alternating Current Bridge Methods (Pitman, London); Reich's Applications of Electron Tubes (McGraw-Hill).

6B. LIGHT. (Graduate B.) (Replaced by 8B in alternate sessions.*)

Sat. at 10; Tutorial problem hour, Tu. at 11; laboratory Th., 2-5.
Professors Keys and Froman.

Text-book:—Houston's Light (Longmans).

References:—Robertson's Physical Optics (Van Nostrand); Wood's Physical Optics (Macmillan); Drude's Optics (Longmans).

6C. ELECTRICITY. (Engineering 318.)

Elementary electron physics.

Second term; Tu., Th., at 9.....Professor Keys.

Text-books:—Crowther's Ions, Electrons, and Ionizing Radiations (Arnold).

7A. ELECTROMAGNETIC THEORY. (Graduate C.)

Tues. at 10.....Professor Froman.

Text-books: — Pierce's Electric Oscillation and Electric Waves (McGraw-Hill); *Reference book:*—Elements of Electricity and Magnetism, by J. J. Thomson (C.U.P.).

7B. MATHEMATICAL PHYSICS. (Graduate D.)

This course includes an introduction to quantum theory and nuclear physics.

Mon., Th., at 10.....Professor Foster.

Text-books:—Houston's Introduction to Mathematical Physics (Longmans), and Page's Introduction to Theoretical Physics (Van Nostrand).

8A. MOLECULAR PHYSICS. (Graduate E.).

Wed., Fri., at 10 (laboratory, Mon. (or Tu.), 2-5).
Professors Shaw and W. H. Watson.

Text-book:—Crowther's Ions, Electrons and Ionizing Radiation (E. Arnold). *Reference books:*—An Outline of Atomic Physics, by the Physics Staff of the University of Pittsburgh (Wiley); Richtmeyer's Introduction to Modern Physics (McGraw-Hill); Strong's Procedures in Experimental Physics (Prentice-Hall).

8B. THEORY OF HEAT. (Graduate F.) (Replaced by 6B in alternate sessions.*)

Mon., at 9 (laboratory, †Th. 2-5); Tutorial problem hour, Sat. at 10.
Professors Froman and Shaw.

Text-book:—Roberts' Heat and Thermodynamics (Blackie).

---

*Course 6B in '40-'41, and 8B in '41-'42.

†The Department of Mining and Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.

9. Radioactivity. (Graduate G.)

Tu., at 9, Th., at 11, laboratory, Fri., 2-5, second term. Dr. Terroux.

Reference book:—Rutherford, Chadwick and Ellis, Radiations from Radioactive Substances (C.U.P.).

10. Applications of Vector Analysis. (Graduate H.)†

Tu., at 10.....Professor W. H. Watson.

11. Astrophysics.†

Tues. and Fri. 10-11 (Lab. Tues. 2-4).

Reference books:—Russel, Dugan and Stewart, Vols. I, II, Astronomy (Ginn); Aitken, The Binary Stars, (Univ. of California Pub.).

12. Applied Geophysics. (Engineering 320, Graduate W.)

A course on the theory and practice of geophysical methods as applied to problems in Engineering and Geology.

Mon. and Wed. at 9, first term.....Professor Keys.

Text-book:—Applied Geophysics, Eve and Keys, 2nd edition (Camb. Univ. Press).

Reference book:—Elements of Geophysics, Ambronn, trans. Cobb (McGraw-Hill).

Honours Courses in Mathematics and Physics

Prerequisite:—High standing in Mathematics 1; Physics 1 or 2. First Year students intending to take these Honours courses are advised to take Physics 2 and the advanced section of Mathematics 1; in this case they should also attend that part of Course 1 which deals with electricity and magnetism.

Second Year:—Mathematics 3, 4, 5; Physics, 3A, 3B, 4; (Chemistry or English or German recommended as other subject to be chosen).

Third Year:—Mathematics 6, 7; Physics 5A, 5B, 6A, 6B (or 8B), 6C.

Fourth Year:—Mathematics 10, 11; Physics 7A, 7B, 8A, 8B (or 6B), 9.

Third and Fourth Year Honours students are invited to attend the Physical Society and colloquia.

A reading knowledge of scientific French and German should be obtained before the end of the fourth year.

See page 261 for course in Engineering Physics.

Graduate Courses in Physics

See the Announcement of the Faculty of Graduate Studies and Research.

†Courses 10 and 11 not offered in '40-'41.

PHYSIOLOGY

Professor.....JOHN TAIT
Research Professor.....BORIS P. BABKIN
Assistant Professor.....N. GIBLIN
Lecturers.....S. DWORKIN, D. A. ROSS, S. A. KOMAROV

1A. INTRODUCTORY ANIMAL PHYSIOLOGY.

Given conjointly with the Department of Zoology.
Lectures: Mon. and Fri., at 11.
Laboratory: Th., 2-5.

Prerequisites:—Chemistry 1, Physics 1; Zoology 1 must be taken either previously or concurrently.

Text-books:—Carlson and Johnson, "The Machinery of the Body"; Sharpey-Schafer, "Experimental Physiology".

2A. COMPARATIVE PHYSIOLOGY.

Given conjointly with the Department of Zoology.

Lectures: Mon., Wed., Fri., at 12; in second term, Wed. and Fri. only.

Laboratory: Mon., 2-5, second term.
Prerequisite:—Physiology 1A.
Text-book:—Sherrington, "Mammalian Physiology".

COURSES FOR HONOURS AND GRADUATE STUDENTS

3. ADVANCED PHYSIOLOGY.

3L. ADVANCED PHYSIOLOGY LABORATORY

4. APPLIED PHYSIOLOGY.

HONOURS COURSE IN ANIMAL PHYSIOLOGY

For general regulations concerning the Honours B.Sc. degree, see page 258.

The courses required for an Honours B.Sc. in Animal Physiology will vary somewhat, depending upon the stage at which a student decides to follow the course. It is recommended that students with physiological inclinations should plan their first and second year courses to allow for this possibility. It has been made feasible nevertheless for a competent and energetic student to decide on this course as late as the end of his second year, although at the cost of a somewhat more strenuous time-table in his third and fourth years. The preferred and alternative courses are listed below in parallel columns.

First Year

As for the General B.Sc. course, preferably with German 3 as the elective course and with Zoology 1 replacing Natural Science 1 for suitably qualified students.

Second Year

As for the Honours B.Sc. in Biological Sciences, with the provision that Physiology 1A must not be omitted.

Preferred	*Alternative*
Chemistry 2, 4, 10;	Chemistry 2, 4, 10;
Mathematics 2 or 3;	Physiology 1A;
Physics 2P;	Zoology 1, or (if 1 already taken) 2;
Physiology 1A;	Botany 1, or Genetics 1,
Zoology 1, or (if 1 already taken) 2.	or Mathematics 2 or 3.

Third Year

Biochemistry 1, 2, 4;	Biochemistry 1, 4;
Histology 1;	Mathematics 2 or 3 (if not already taken);
Physics 3A;	Physics 2, 3B;
Physiology 2A.	Physiology 2A;
	Zoology 2 (if not already taken).

Fourth Year

Botany 2A, 2B;	Biochemistry 2;
Chemistry 3;	Botany 2A, 2B;
German 4 (German 3 prerequisite);	Histology 1;
Physiology 3, 3L, 4;	Physics 3A;
Zoology 2 (if not already taken).	Physiology 3, 3L, 4.

PSYCHOLOGY

Professor.....WILLIAM D. TAIT
Associate Professor.....CHESTER E. KELLOGG
Assistant Professor.....N. W. MORTON

1. INTRODUCTION TO PSYCHOLOGY. Second Year.

Mon., Wed., at 10 and three laboratory periods per month to be arranged. This course is a prerequisite for all other courses.

Professor Tait and Demonstrator.

Text-book:—Dashiell, Fundamentals of General Psychology.

2. ADVANCED PSYCHOLOGY. Third Year.

A general survey covering the evolution of mind, individual development, experimental psychology, individual differences, and an introduction to social psychology and psychotechnics.

Mon., Wed., Fri., at 11.....Professor Kellogg.

3. EXPERIMENTAL PSYCHOLOGY. Third and Fourth Years.

Includes in the first term experiments upon perception, learning, feeling and emotion, etc; in the second term, individual research projects. Lectures deal with experimental and statistical methods in psychological research. One hour's lecture and four hours' laboratory to be arranged.....Professor Morton.

4. PHYSIOLOGICAL PSYCHOLOGY. Third and Fourth Years.

Study of the physiological and neurological correlates of psychological processes. Open only to students who have passed or take concurrently Course 2 or Course 3, and to B.Sc. students taking continuation work in Biology.

Text-book:—Freeman, Introduction to Physiological Psychology.

Tu., Th., Sat., at 11.....
(Not given in 1940-41).

5. COMPARATIVE PSYCHOLOGY. Third and Fourth Years.

Comparative study of representative species from the protozoa to man, with special attention to researches on the learning process in lower mammals and primates; prehistoric and primitive man; race differences and race problems.

Open only to students who have passed or take concurrently Course 2 or Course 3 or Natural Science 1 or Zoology 1.

Text-book:—Maier and Schneirla, Principles of Animal Psychology; Hooten: Up From the Ape.

Mon., Wed., and Fri., at 10.....Professor Kellogg.
(Given in 1940-41).

6. CHILD PSYCHOLOGY. Third and Fourth Years.

Lectures, readings and reports (half course).

First term: Tu., Th., Sat., at 10.....Professor Tait.
(Given in 1941-42).

Text-book:—Brooks, Child Psychology.

7. SOCIAL PSYCHOLOGY. Third and Fourth Years.

Lectures, readings and reports.

Tu., Th., Sat., at 11.....Professor Tait.

Text-book:—Katz and Schanck, Social Psychology.

8. PSYCHOLOGY OF ART APPRECIATION. Third and Fourth Years.

Text-books:—Chandler, Beauty and Human Nature; Flaccus, The Spirit and Substance of Art; Torossian, A Guide to Aesthetics.

Mon., Wed., Fri., at 10.....Professor Kellogg.
(Given in 1941-42).

9. EDUCATIONAL PSYCHOLOGY. Third and Fourth Years.

Lectures, reading, and a thesis.

Tu., Th., Sat., at 10.....Professor Tait.
(Given in 1940-41).

Text-book:—Judd: Educational Psychology.

10. INDIVIDUAL DIFFERENCES AND THEIR MEASUREMENT. Third and Fourth Years.

Origins and growths of individual differences; methods of testing and rating; theories of organization of personality traits; applications in educational and vocational guidance.

Mon., Wed., Fri., at 9.....Professor Morton.

11. PSYCHOLOGICAL PROBLEMS IN BUSINESS AND INDUSTRY. Third and Fourth Years.

Topics include the selection and training of employees; analysis of work-methods; accidents; fatigue and boredom; incentives, employer-employee relations; selling, advertising and market research.

Text-book:—Moore, Psychology for Business and Industry.

Mon., Wed., Fri., at 12.....Professor Morton.

12. PSYCHOLOGY OF SECONDARY EDUCATION. Fourth Year.

Adolescence and the high school curriculum; psychology of the high school subjects; the use and construction of objective examinations; student counselling methods.

Text-book:—Garrison & Garrison, Fundamentals of Psychology in Secondary Education.

(Given in 1941-42). Professor Kellogg.

13. SOCIAL PSYCHOLOGY OF EDUCATION. (Relations between Teacher, School and the Community). Third and Fourth Years.

Lectures, readings and reports.

Second term, Tu., Th., Sat., at 10.....Professor Tait
(Given in 1941-42).

Text-book:—Bowden & Melbo, Social Psychology of Education.

14. ABNORMAL PSYCHOLOGY. Fourth Year.

A general introduction to the problems of personality maladjustment, mental deficiency, and mental disorders, psychological techniques in case-study, and psychotherapy.

Text-book:—Dorcus and Shaffer, Text-book of Abnormal Psychology.

Open to pre-medical students in third year.

Tu., Th., Sat., at 12.....Professor Kellogg.

15. HISTORY OF MODERN PSYCHOLOGY. Fourth Year.

Conferences, readings and reports.

Open to Honours students, and to other students upon permission of the instructor.

First term. Hours to be arranged.....Professor Morton. (Given in 1941-42).

16. CONTEMPORARY PSYCHOLOGICAL THEORY. Fourth Year.

Conferences, readings and reports.

Prerequisite:—Course 15.

Second term. Hours to be arranged.....Professor Kellogg. (Given in 1941-42).

17. PSYCHOMETRIC METHODS. Fourth Year.

Text-book:—Guilford, Psychometric Methods.

Hours to be arranged.....Professors Kellogg and Morton.

HONOURS COURSES

Students contemplating Honours must take Psychology I and are advised to take Philosophy I in Second Year, also Biology and Elementary German in either First or Second Year. Admission to Honours will depend upon the student's standing in Psychology and related subjects.

Third Year:—At least two courses in Psychology, including either 2 or 3. The remaining courses should be selected in consultation with the Chairman of the Department.

Fourth Year:—Four full courses, as in third year, except that course 2 may not be counted as an Honours Course in 4th year. At the end of the Fourth Year Honours students are required to take a comprehensive examination covering the whole field. This examination may be either oral or written.

The requirements for Honours in Psychology and other subjects are two courses in Psychology and two in the other subjects selected, each year.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

SOCIOLOGY

Professor.....CARL ADDINGTON DAWSON
Assistant Professor.....FORREST LA VIOLETTE

1. INTRODUCTION TO THE STUDY OF SOCIETY. Second Year.
(a) Tu., Th., Sat., at 12.....Professors Dawson and La Violette.
(b) Tu., Th., Sat., at 11.....Professors Dawson and La Violette.
Text-book:—Dawson and Gettys, An Introduction to Sociology. The Ronald Press.

2. THE COMMUNITY. Third and Fourth Years.
(Given in 1941-42).....Professor Dawson.

3. IMMIGRATION AND POPULATION GROWTH; THE ASSIMILATION OF ALIEN GROUPS; THE RACE FACTOR IN CANADA. Third and Fourth Years.
Second term; Tues., Thu., Sat., at 9.....Professor Dawson.

4. SOCIAL DISORGANIZATION. Third and Fourth Years.
(Given in 1941-42).....Professor La Violette.

5. SOCIAL ORIGINS: THE CULTURE AND SOCAL ORGANIZATION OF PRE-LITERATE PEOPLES. Third and Fourth Years.
First term; Mon., Wed., Fri., at 9.....Professor La Violette.

6. SOCIAL MOVEMENTS. Third and Fourth Years.
Second term; Mon., Wed., Fri., at 9.....Professor La Violette.

7. THE FAMILY. Third and Fourth Years.
First term; Tues., Thu., Sat., at 9.....Professor Dawson.

9. THE SOCIOLOGY OF THE CHILD. Third and Fourth Years.
(Given in 1941-42).....Professor La Violette.

11. SOCIAL INSTITUTIONS.
(Given in 1941-42).....Professor La Violette.

12. SOCIAL ATTITUDES AND PERSONALITY.
Hours to be arranged.....Professor La Violette.

HONOURS COURSES

Second Year:—Course 1 and two courses selected from any two of the allied Departments of Economics, Psychology, Philosophy and History.

Third Year:—Two full courses.

Fourth Year:—Three full courses.

The Department makes a liberal use of courses in allied Departments in planning the programme for honours students.

Students taking honours in Sociology and one other subject are required to take two courses in each Department.

Graduate Courses

For graduate courses in Sociology, see the Announcement of the Faculty of Graduate Studies and Research.

SPANISH

Sessional Lecturer.....Mrs. H. L. Henry

1. First Year.

Grammar, reading and dictation, oral exercises and composition.

Tues., Thurs., Sat., at 10.....Mrs. Henry.

Texts:—Caroline Marcial Dorado, *Pasitos*, Harper, 1935. W. S. Hendrix, *A Cultural Spanish Reader*, N.Y., Holt, 1936.

Students are required to attend extra classes provided for practice in dictation, etc.

2. Second Year.

Novelists of XIXth century. Further cultural reading. Translation. Free composition. Conversation.

Tues., Thurs., Sat., at 11.....Mrs. Henry.

Texts:—Marcial Dorado & Laguna, Segundas Lecciones de Español (Ginn), Barr & Russell, Selections from Palacio Valdés (American Book Co.)

Comparative Literature. Hispanic Contacts with European Literature (Third and Fourth Years). (English 24).

This course will be open to students having a reading knowledge of French or Spanish or both, and will deal with relations between the literature of Spain and that of other European countries, particularly England and France. Though readings in Spanish texts will be assigned much of the material will also be available in adequate translations.

Subjects for special study will be: (a) the European influence of *Don Quixote* and of the Picaresque Novel; (b) currents in Spanish pre-romanticism; (c) the historical novel in Spain and the influence of Scott; (d) Spanish developments of Byronism; (e) the Spanish *romances* in nineteenth-century literature.

Mon., Wed., Fri., at 3.....Professor Noad.

ZOOLOGY

Strathcona Professor.....

Associate Professor.....N. J. BERRILL

Assistant Professor.....V. C. WYNNE-EDWARDS

Lecturers.....KATHLEEN G. TERROUX, RONALD GRANT

Hon. Lecturer.....B. W. TAYLOR

Assistant.....B. N. SMALLMAN

Professor of Parasitology and Director of the Institute of Parasitology at Macdonald College.....T. W. M. CAMERON

Assistant Professor of Entomology at Macdonald College.....E. M. DUPORTE

NATURAL SCIENCE 1. A conjoint course in Geology, Botany and Zoology, outlining the evolution of the earth and its inhabitants.

Mon., Wed., Fri., at 12.....Professor Berrill.

1. GENERAL ZOOLOGY.

Tues., Thurs., at 10; laboratory Wed., or Thurs., 2-5.
Professor Berrill and Dr. Grant.

(Students taking Zoology 1 are expected to register for Physiology 1A.)

INTRODUCTORY ANIMAL PHYSIOLOGY. (Physiology 1A). A conjoint course with the Department of Physiology; in addition to being the introductory course in physiology this course is the functional complement to General Zoology. (Prerequisites: Chemistry 1, Physics 1, Zoology 1 must have already been taken or be taken concurrently). Mon., Fri., at 11; laboratory Thus., 2-5.

2. VERTEBRATE ZOOLOGY.

Tu., Th., at 10; laboratory Fri., 2-5....Professor Wynne-Edwards.

3. COMPARATIVE EMBRYOLOGY AND HISTOLOGY. Given conjointly with the Department of Genetics; this course complements and leads to the course of Histology and Embryology (Histology 1) given in the Department of Anatomy. (Prerequisites: Zoology 1, Chemistry 2, 4.).

Tues., Thurs., at 11; laboratory Tues., 2-5....Professors Berrill and Reed.

4. & 5. INVERTEBRATE ZOOLOGY. (Zoology 4 and 5). Given in conjunction with the Departments of Entomology and Parasitology. Course 4 and 5 are given in alternating years.

COMPARATIVE. (Zoology 4) 1940-41.

Mon., Fri., at 12; laboratory Mon., 2-5.....Dr. Grant and Dr. Terroux.

SPECIAL. (Zoology 5) 1941-42.

5a. 1st term Entomology.....Professor Du Porte.

5b. 2nd term Parasitology.....Professor Cameron.

Mon., Fri., at 12; laboratory Mon., 2-5.

7. ADVANCED VERTEBRATE ZOOLOGY.

Mon., Fri., at 10, laboratory Tues., 2-5.....Professor Wynne-Edwards and Mr. Taylor.

COMPARATIVE PHYSIOLOGY (Physiology 2A). Given conjointly with the Department of Physiology. (See Dept. Physiology, page 309.)

Dr. Terroux and Dr. Grant.

HONOURS B.Sc. IN ZOOLOGY

FIRST AND SECOND YEARS. See general statement, page 259.

Students who have taken Zoology 1 in their first year and who have taken a second year alternative other than one of the six listed on page 259, should consult the Department of Zoology for further advice. Zoology 2 may be taken in the second year if Zoology I has already been taken.

THIRD YEAR.

The third year has been arranged so that the student has the option of obtaining his degree in Zoology either by continuing for his fourth year in the Department of Zoology or of transferring to the Department of Entomology at Macdonald College. The former alternative implies an intention to study general Zoology, the latter indicates an early intention of specializing in economic Zoology.

Third year requirements for students who have taken Zoology 1 in their second year:—

Zoology 2, 3, 4 or 5.

Any of Physiology 1A, Botany 1, Genetics 1, not already taken.

Additional courses to make a total of five.

FOURTH YEAR: Four optional courses are offered. These are:

(In the Department of Zoology).			(In the Department of Entomology)
(1) Embryology	(2) Physiological Zoology	(3) Comparative Anatomy	(4) Economic Zoology
Zoology 4 or 5	Zoology 4 or 5	Zoology 4 or 5	Zoology 32
Zoology 8	Zoology 6	Zoology 7	Entomology 32
Genetics 2	Botany 2A	Anatomy 1	Entomology 30
Histology 1	Biochemistry 1	Histology 1	Entomology 35
Biochemistry 1	Biochemistry 2		Bacteriology 30
Genetics 3	Physiology 2A		Physics 33
			Parasitology 39 or Invertebrata (see Macdonald College Announcement)

These courses would prepare the student for graduate study as follows:—

(1) Zoology and Genetics.

(2) Zoology, Genetics, Physiology.

(3) Zoology, Genetics, Anatomy.

(4) Zoology, Entomology, Parasitology.

For details of graduate courses offered in these departments see the Announcement of the Faculty of Graduate Studies and Research.

GRADUATE COURSES IN ZOOLOGY

See the Announcement of the Faculty of Graduate Studies and Research.

THE FACULTIES AND SCHOOLS OF THE UNIVERSITY OTHER THAN THE FACULTY OF ARTS AND SCIENCE

For brief details of these faculties and schools see the General Announcement which may be obtained from the Registrar's Office.

Separate Announcements of these faculties and schools may also be obtained from the Registrar's Office.

McGILL UNIVERSITY

MONTREAL

SCHOOL OF COMMERCE

1940 - 1941

McGILL UNIVERSITY

MONTREAL

SCHOOL OF COMMERCE

1940 - 1941

McGILL UNIVERSITY

SCHOOL OF COMMERCE

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, B.Com., M.A., Ph.D., F.R.S.C.

Dean of McGill College.....Hon. Cyrus Macmillan, M.A., Ph.D.

Acting Director of the School of Commerce.....E. F. Beach, M.A., Ph.D.

Secretary and Bursar.....F. O. Stredder, M.A., Ph.D. (on military service)

Registrar.....T. H. Matthews, M.A.

Acting Bursar.....William Bentley, C.G.A., A.C.I.S.

ADVISORY COMMITTEE ON THE SCHOOL OF COMMERCE

The Acting Director, *Chairman*

The Principal
Dean Cyrus Macmillan
Professor H. Tate
Professor J. P. Day
Professor W. H. Hatcher
Professor R. R. Thompson

A complete list of the teaching staff of the University, including the School of Commerce, is printed as a separate announcement, which may be obtained from the Registrar's Office.

SCHOOL OF COMMERCE

FOUR-YEAR COURSE LEADING TO THE DEGREE OF BACHELOR OF COMMERCE

For information concerning the Accountancy Diploma Course for students of the Accountancy Associations of the Province of Quebec, see pages 376 to 385.

ENTRANCE REQUIREMENTS

Candidates for admission to the First Year of the School of Commerce in September, 1940, and September, 1941, are required to pass either the Arts or Science Junior Matriculation or an equivalent examination (see General Announcement).

Candidates for admission to the First Year in September, 1942, and thereafter will only be given entrance to the School of Commerce after passing in full regular standing the First Year course in Arts or Science or Senior matriculation or its equivalent.

A limited number of partial students may be admitted. For conditions of admission see the Announcement of the Faculty of Arts and Science.

For information concerning Limited Undergraduates see the Announcement of the Faculty of Arts and Science.

Women are admitted on the same terms as men.

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

Candidates desirous of entering the School of Commerce must apply for admission before September 10th. Application forms are provided by the Registrar's Office.

ADMISSION TO THE SECOND AND THIRD YEARS

ADMISSION BY SENIOR MATRICULATION.

For the sessions 1940-41 and 1941-42 but not thereafter, the Senior Matriculation Examination of the University (Commerce Division) or any examination recognized as its equivalent will admit a student directly into the Second Year, provided

(1) The student has already passed the Junior Matriculation Examination or some equivalent examination.

(2) The student has obtained a second-class average in the Senior Matriculation examination papers.

ADMISSION BY TRANSFER.

Application for transfer into an upper year of the School (old course) should be made to the Registrar's Office. It must be made on the proper form and supported by certified copies of the applicant's previous academic record. Such an application will be considered only if the student is in good standing and has a record which justifies the transfer.

Students admitted into the Second or the Third Year may be required to take certain compulsory courses in a lower year.

ADVISERS

At the time of registration each student entering the First Year is interviewed by a member of the Committee of the Board of Student Advisers. At this interview the student is given any information or advice that he may need and is asisted in the selection of his courses. At the same time he is assigned to an adviser whom he may consult at any time and should consult at least once a month.

REGISTRATION

Students in Commerce are required to register on September 26th or 27th, from 9.00 a.m. to 12.00 noon and from 2 to 4.30 p.m. or on September 28th, from 9.00 a.m to 12.00 noon only. Students who register after the official registration days, must pay a late registration fee. For registration during the first week of the session, $5.00. For registration during the second week of the session, $10.00. This fee is not refunded except for satisfactory reasons and by authorization of the Faculty of Arts and Science. After the 18th day of October no person is admitted to the school without the special permission of the Faculty.

Students who wish to make a change in their choice of studies must make application to the Registrar's Office to do so, on a regular form. No change in registration will be allowed, except under special circumstances, after the 15th October.

ATTENDANCE

Students of the First and Second Years and all partial students and students on probation are required to attend at least seven-eighths of the total number of lectures or laboratory periods in each course. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth must repeat the work in that course.

Excuses on the ground of illness, domestic affliction or accident are dealt with only by the Deans of the respective Divisions.

Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. Serious breaches of discipline are dealt with by the Dean of the Faculty.

Lectures commence at five minutes after the hour on the conclusion of the roll call, and end at five minutes before the hour. Two lates count as one absence.

In cases where it is impracticable to record late attendance, students are marked absent.

EXAMINATIONS AND ADVANCEMENT FROM YEAR TO YEAR

Information concerning examinations, supplemental examinations, and advancement from year to year, will be found in the Announcement of the Faculty of Arts and Science.

PASS MARKS, CLASSES AND STANDING

The pass mark in all examinations is 50% and the marks for first and second class standing are 80% and 65% respectively.

When the student's record during his second, third and fourth years reaches a high second-class standing, a special award of "Distinction" will be made on graduation. When the record reaches first-class standing the special award made will be "Great Distinction".

Fees.

For fees in the Accountancy Diploma Course for Students of the Accountancy Associations of the Province of Quebec, see page 384.

For regular University fees and special fees see the General Information Pamphlet enclosed with this Announcement.

Dates of Payment.

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1 p.m., and 2.30 to 4 p.m. on the following dates:—

Tuesday, October 1st
to
Friday, October 4th

or, if desired, fees may be remitted by mail before the above dates.

The second instalment of tuition fees is due and payable on February 1st. An additional $2,00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees the Bursar sends to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

All fees are payable in Canadian currency.

EXPENSES

An estimate of expenses will be found in the General Information Pamphlet included in this Announcement.

SCHOLARSHIPS, PRIZES AND MEDALS

See separate Announcement of Scholarships, Bursaries, Prizes, and Loan Funds.

COMMERCIAL SOCIETY LOAN FUND

A fund has been established by the Commercial Society to be known as "The Commercial Society Loan Fund," for the purpose of aiding each year one or more students of the School of Commerce who are entering their fourth year, to complete their course. Loans from this Fund are repayable within two years after graduation. Applications should be made to the Acting Director of the School of Commerce.

COURSES FOR THE DEGREE OF BACHELOR OF COMMERCE

OLD COURSE

The courses extend over four years and students who complete them are granted the degree of Bachelor of Commerce (B.Com.).

For students who were registered in the School of Commerce in the session 1939-40 or earlier and for students admitted in September, 1940, to the second year the curriculum is as follows:—

FIRST YEAR

Obligatory Subjects

English 1 and 2.
Mathematics 1.
French, or Spanish, or German.
Theory and Practice of Accounts.

Optional Subjects (two to be chosen)

Latin, or Greek.
German, or Spanish, or French.
Physics 1, or Botany, or Zoology, or Chemistry 1A or 1B with or without laboratory or Chemistry 16 without laboratory.
History 1A.

N.B.—Students intending to take Mathematics 4 in the Second Year must obtain 65 per cent in the Mathematics of the First Year.

SECOND YEAR

Obligatory Subjects

French, or Spanish, or German (continued).
Theory and Practice of Accounts.

Optional Subjects (three to be chosen)

Economics 21.
English.
Mathematics 15.
Mathematics 2 or 4.
Psychology 1.
German, or Spanish, or French (continued).
Chemistry.
Physics.

N.B.—(*a*) Mathematics 15 is a prerequisite to Mathematics 16, and is necessary for students proceeding to the diploma of Licentiate in Accountancy of McGill University.

(*b*) Economics 21 is necessary for students proceeding to the diploma of Licentiate in Accountancy of McGill University (see page 362).

THIRD YEAR

Obligatory Subjects

French, or Spanish, or German (continued for students who have taken one of these subjects during their First and Second Years).

Optional Subjects (four 3-hour courses, or their equivalent, to be chosen)

Theory and Practice of Accounts.
Industrial Psychology 11 (half course).
Psychology of Aptitudes 10 (half course).
Commercial Law.
Economics (any approved course).
English.
Mathematics 16.
Spanish, or French, or German (continued).

N.B.—(*a*) Only half credit is given to a second modern foreign language begun after the Second Year. Students should further note that time-table complications may make it impossible to begin a second language in any year except the First.

(*b*) Mathematics 15 and 16 must be taken by students proceeding to Mathematics 17 in the Fourth Year.

(*c*) Mathematics 16 is necessary for students proceeding to the the diploma of Licentiate in Accountancy of McGill University.

(*d*) First and Second Year Accountancy are prerequisites to Accountancy in this Year.

(*e*) Economics 21 is a prerequisite to all the other courses in this Department.

(*f*) Second Year Psychology is a prerequisite to Industrial Psychology.

FOURTH YEAR

(Five 3-hour courses, or their equivalent, to be taken)

French (continued).
Spanish (continued).
Theory and Practice of Accounts.
Business Organization and Scientific Management, if not taken in Third Year.
Industrial Psychology 11 (half course).
Psychology of Aptitudes 10 (half course).
Mathematics 3.
Mathematics 16.
Mathematics 17
Commercial Law.
Marine Insurance and Transportation (half course).
Economics (any approved course).
English.

N.B.—(*a*) Third Year Accountancy and Third Year Commercial Law are all perequisites to Fourth Year Accountancy.

(*b*) Economics 21 is prerequisite to all the courses in Economics in the Fourth Year.

(*c*) The Mathematical courses prescribed in the first three years are all prerequisites to Mathematics 17 in the Fourth Year.

(*d*) Mathematics 16, and English, can be taken in either the Third or the Fourth Year.

(*e*) Candidates proceeding to the diploma of C.A. must take the Commercial Law course in both Third and Fourth Years, and also Business Organization and Scientific Management.

Students are responsible for seeing that courses chosen do not conflict as regards hours of lectures.

NEW COURSE

For students entering the first year of the School of Commerce in September, 1940, and thereafter, and for students entering the second year in September, 1941, and thereafter, the curriculum will consist in part of compulsory courses, and in part of optional courses chosen in accordance with the student's individual interests. As optional courses, a student may take any courses offered in the Faculty of Arts and Science other than the compulsory courses listed below. A student in any year is expected to satisfy himself before he selects any optional course.

(1) That he has completed any pre-requisite work that the Department concerned may require of students entering that course, and

(2) That there is no conflict in his time-table.

Students at the time of registration have an opportunity of discussing with their advisers the optional courses that they may wish to take.

Compulsory Courses	Optional Courses
First Year	
Economic History.	One of French
Accounting.	Spanish
Mathematics 1	German
English 1 and 2	History 1A
	Philosophy 1
Second Year	
Elements of Economics	One full course or its equivalent in
Accounting	half courses.
Mathematics	
Science in Economic Life 1*	

THIRD YEAR.

Economic Statistics Science in Economic Life II*	Any three full courses or their equivalent in half courses.

FOURTH YEAR.

Economics—Money and Banking Science in Economic Life III*	Any three full courses or their equivalent in half courses.

Students who intend after graduation to enter a profession should acquaint themselves with the requirements for admission to that profession, and should take these requirements into consideration when choosing their optional courses.

THE MASTER OF COMMERCE DEGREE

Bachelors of Commerce who have taken all the courses in Economics in the undergraduate curriculum for students in Commerce and have obtained at least second class standing may proceed to the Master of Commerce Degree. For particulars see the Announcement of the Faculty of Graduate Studies and Research.

DIPLOMA OF LICENTIATE IN ACCOUNTANCY

(Under the provisions of Quebec Statutes, Act 8, George V, chapter 43)

The following applies to Bachelors of Commerce, who entered the School of Commerce, as undergraduates before 31st May, 1940, and who wish to join one of the bodies of professional accountants incorporated under the laws of Quebec. For those who wish to enter the Society of Chartered Accountants of the Province of Quebec or the Corporation of Public Accountants of the Province of Quebec, and who enter the School of Commerce as undergraduates after 31st May, 1940, see later.

To obtain the Diploma of Licentiate in Accountancy, which carries with it right of entrance into the Society of Chartered Accountants of the Province of Quebec, or into the Institute of Accountants and Auditors

---

*This is a three year course with demonstrations not involving laboratory work.

of the Province of Quebec, or into the Corporation of Public Accountants of the Province of Quebec, the student must satisfy the following conditions:

(*a*) He must pass all the examinations required for the Degree of Bachelor of Commerce, and be granted that degree.

(*b*) The following courses must be included in his four-year course for the Degree of Bachelor of Commerce:

Four courses in Theory and Practice of Accounts
Business Organization and Scientific Management
Third and Fourth Year Commercial Law
Economics 21
Mathematics 15. Elements of Co-ordinate Geometry and Calculus.
Mathematics 16. Theory of Interest and Elementary Statistics.

In the Third and Fourth Year Commercial Law examinations he must obtain an average of 55% in all sections and not less than 50% in each section. Any student who fails in any paper in Commercial Law must repeat the course and all the examinations of the course, but any student who passes in each paper but fails to obtain the 55% average is required only to repeat the examinations.

(*c*) He must spend at least one year, subsequent to his obtaining the Degree of Bachelor of Commerce, in the office of a practising accountant.

(*d*) He must attend the Evening Accountancy Diploma Course in Final Accounting and Auditing. (See pages 376 and 377).

(*e*) He must make written application to the Acting Director, School of Commerce, McGill University, to sit for the Final Accounting and Auditing examination, and with his application must include a statement from his employer or employers to the effect that he has spent at least one full year in the office of an accountant. The fee must be sent with the application.

He must pass successfully the final examination in Accounting and Auditing.

The Society of Chartered Accountants of the Province of Quebec has agreed to accept apprenticeship in a Chartered Accountant's Office anywhere in Canada.

Graduates must exert themselves to find an Accountant's Office willing to accept them during their period of apprenticeship. The University has no obligation in the matter.

ACCOUNTANCY DIPLOMA COURSE

Details of the Accountancy Diploma Course for students of the Accountancy Associations of the Province of Quebec will be found on pages 376 to 385.

FINAL ACCOUNTING AND AUDITING

For details of the course and examination in Final Accounting and Auditing, see pages 377 and 381.

CHARTERED ACCOUNTANTS

The following applies to Bachelors of Commerce who enter the School of Commerce as undergraduates, after 31st May, 1940, and who wish to join the Society of Chartered Accountants of the Province of Quebec.

Such students will be required to pass the Intermediate and Final Accounting and Auditing examinations of the Society.

Before presenting himself for the Intermediate Examination in Accounting and Auditing the student must have satisfied the following requirements:—

(a) He must have passed all the examinations required for the Degree of Bachelor of Commerce and been granted that degree.

(b) The following courses must have been included in his four-year course for the Degree of Bachelor of Commerce:
Four courses in Theory and Practice of Accounts,
Business Organization and Scientific Management,
Third and Fourth Year Commercial Law,
Economics 21,
Mathematics 15. (Elements of Co-ordinate Geometry and Calculus.)
Mathematics 16 (Theory of Interest and Elementary Statistics).

In the Third and Fourth Year Commercial Law examinations he must have obtained an average of 55% in all sections and not less than 50% in each section. Any student who fails in any paper in Commercial Law must repeat the course and all the examinations of the course, but any student who passes in each paper but fails to obtain the 55% average is required only to repeat the examinations.

Before presenting himself for the Final Examination in Accounting and Auditing, the student must have satisfied the following requirements:

i. He must have registered with the society as one of its students.

ii. He must have passed the Society's Intermediate Examination in Accounting and Auditing.

iii. Subsequent to the passing of the Society's Intermediate Examination in Accounting and Auditing, he must have served two years in the office of a practising Chartered Accountant in the Province of Quebec.

iv. He must have attended the evening courses in Final Accounting and Auditing, and he must have passed the class-examination held at the close of those courses.

v. He must make written application to the Secretary of the Society of Chartered Accountants of the Province of Quebec on the form required by the Society.

vi. He must not be less than 21 years of age at the date of the Final Examination.

CORPORATION OF PUBLIC ACCOUNTANTS

The following applies to Bachelors of Commerce who enter the School of Commerce as undergraduates after 31st May, 1940, and who wish to join the Corporation of Public Accountants of the Province of Quebec.

Such Bachelors of Commerce will be required to pass the Final Accounting and Auditing examinations of the Corporation of Public Accountants.

Before presenting himself for this Final examination such a Bachelor of Commerce must have satisfied the following requirements:—

(*a*) He must have passed all the examinations required for the degree of Bachelor of Commerce, and been granted that degree.

(*b*) The following courses must be included in his four-year course for the Degree of Bachelor of Commerce:

Four courses in Theory and Practice of Accounts,
Business Organization and Scientific Management,
Third and Fourth Year Commercial Law,
Economics 21,
Mathematics 15 (Elements of Co-ordinate Geometry and Calculus).
Mathematics 16 (Theory of Interest and Elementary Statistics).

In the Third and Fourth Year Commercial Law examinations he must obtain an average of 55% in all sections and not less than 50% in each section. Any student who fails in any paper in Commerical Law must repeat the course and all the examinations of the course, but any student who passes in each paper but fails to obtain the 55% average is required only to repeat the examinations.

(*c*) He must have served for a term of at least two years before the Final Examinations as clerk in the office of a member of the Corporation or of any other practising public accountant recognized as such by the Council of the Corporation, or he must have practised continuously as a public accountant under his own name for a period of at least three years immediately before the Final Examination.

He must obtain evidence to prove to the satisfaction of the Corporation that he has done one or other of the above.

(*d*) He must have attended the evening courses in Final Accounting and Auditing.

(*e*) He must obtain from the University and file with the Secretary of the Corporation a certificate from the University showing that he has complied with (*a*), (*b*) and (*d*) above.

(*f*) He must have made written application to sit for the Final Examination in Accounting and Auditing to the Secretary of the Corporation on the form required by the Corporation.

(*g*) He must be 21 years of age at the date of the Final Examination.

The Final Examination in Accounting and Auditing of the Corporation will be held once a year. The Board of Examiners will consist of five members, two to be appointed by the University and three by the Corporation.

COURSES OF LECTURES

ECONOMICS

Old Course

Commerce students may take any course in Economics and Political Science approved by the Acting Director of the School of Commerce and the Chairman of the Department (see Arts and Science Announcement).

New Course

The following are the required courses in Economics in the School of Commerce.

In addition to these, students exercising their options in favour of Economics and Political Science can elect courses listed in the Announcement of the Faculty of Arts and Science.

First Year

Evolution of economic institutions; the Ancient Empires; economic and social aspects of the Decline and Fall; mediaeval agrarian economy; fairs, towns and trading companies; mediaeval money; the Voyages of Discovery; religion and the rise of capitalism; Nationalism and Mercantilism; the Colonial System; the beginnings of modern banking; the great inventions and the factory system; North American industrial development; trade unions and the co-operative movement; legislative protection of the worker; international finance; rise and fall of the Gold Standard; evolution of the central banking function; recent economic changes.

Second Year

Wants and their characteristics; the purpose of production; what is meant by production; the factors of production; land, labour and capital; large scale production; the necessity for exchange and its problems; value and price; money; the quantity theory; the business cycle; the creation of credit; the Canadian banking system; Foreign Exchange; free trade and protection; the problems of distribution; rent; wages; labour organizations; interest; profits; alternative social systems.

Third Year

Scope and meaning of statistics; publications of the Dominion Statistician and of government departments in Whitehall and Washington; the general method of statistical investigation; graphics; tabulation and frequency distribution; averages and the measurement of variations; index numbers; correlation; sampling and significance; analysis of time series; interpretation of statistical results.

Exercises and reports are an integral part of this course and students wishing to take it must be familiar with co-ordinate geometry and the calculus. Mathematics 15 is a pre-requisite.

Fourth Year

Evolution of Money; commercial banking—development of, in United Kingdom and United States; theory of deposit creation; the central banking function; pre-1914 Canadian banking system; War Finance Act and the Bank of Canada; movements of wholesale prices before and after 1914; the Peace Treaties and the structure of international finance; Dawes Report and the crises of 1929 and 1931; recovery programmes of Australia, United Kingdom, United States and France; the coming of Autarchy; monetary disturbances and business fluctuations, 1931-1939; the theory of money.

THE THEORY AND PRACTICE OF ACCOUNTS

Under both the old and new course the first and second year courses are obligatory; the others are optional.

First Year

The principle of debit and credit; books of original record; documents employed; sales, purchases, consignments; returns inwards and returns outwards; correction of errors; subsidiary ledgers, and controlling accounts to represent them in the general ledger; special forms of cash-book required to facilitate such control; notes and drafts, discounting and renewal of notes; single entry; revenue and capital expenditure; trading, and profit and loss statements and balance sheet; single proprietorships; elements of partnership; elements of corporation finance.

Mon., Wed., Fri., at 12 ..... Professor Thompson.

Second Year

Special problems that occur in connection with partnerships; the deed of partnership; rights of partners; effects of dissolution; methods of distributing profits; the bringing in of other partners; goodwill; transformation of a firm into a corporation; departmental accounts; organization and internal check; distribution of expenses over departments; comparison of results shown with those of other periods; manufacturing accounts; the elements of cost accounting; building up C.I.F. and other quotations; the voucher-register, depreciation and methods of providing for it; reserves; corporation finance.

Mon., Wed., Fri., at 9 ..... Mr. Patton.

Third Year

(*a*) Theory of the Balance Sheet: Its form and elements; capital and revenue receipts and expenditures; valuation of fixed and current assets and liabilities; wasting assets; capital and revenue profits and losses; comparative balance sheets and statements and deductions to be drawn from them; surplus statements.

(*b*) Corporation Finance: Interior organization of the corporation; stock and bond issues; initial operations; earnings and their disposition; secret reserves; betterments; surplus; control exercised by directors and majority stock-holders; its abuse; different bases of capitalization; bonus stock; treasury stock; watered stock; discount and premium on bond issues; sinking funds.

(*c*) Cost Accounting: General considerations; advantages of cost systems; different methods of distributing overhead expense; comparison of costing estimates with general books; total cost of selling-price.

(*d*) Auditing: Elementary considerations; audit-programme for simple trading concern.

(*e*) Budgeting and budgetary control.

Tues., Thurs., Sat., at 10.....Professor Thompson.

Fourth Year

(Intended especially for students proceeding to a Diploma in Accountancy, although this course may be taken by all students who have reached the required standard.)

Cost Accounting: Control of stores, the running inventory; remuneration of labour; leakage in factories; forms used in "job and process" costing systems; connection of cost records with general accounts.

Export Houses and Branches: Accounts of head office and of branches; goods invoiced at cost; intermediate, and selling price; chain-stores; foreign exchange.

Consolidations, Amalgamations, Mergers: Consolidated statements and balance-sheets; holding corporations; control of stock and bond issues; minority holdings; advances to subsidiaries; intra-combine profits and liabilities; initial surplus and goodwill.

Insolvency Accounts: Statements of affairs; deficiency statement; realization and liquidation account.

Auditing: Considerations applicable to all undertakings, and special considerations applicable to particular concerns; auditors' rights and duties; audit-certificates.

Trustees' Accounts: Executorships and administratorships; accrued claims and income, corpus and income; division of an estate.

Income Tax: General considerations; taxable and untaxable income.

Instalment Sales.

Mon., Wed., Fri., at 11.....Professor Thompson.

BUSINESS ORGANIZATION AND SCIENTIFIC MANAGEMENT

Commercial Organization: Origin, growth and classification of business organization; tests of efficiency in business organizations. Social and economic and legal aspects in the following types of organization: single proprietorship; partnership; joint stock company, public and private corporations; rights, duties, and liabilities of directors, officers, shareholders, and debenture-holders; agreements, pools, kartells, simple business trusts; combination trusts; securities-holding organization; amalgamation, and mergers; launching of an industrial enterprise; planning a budget; planning a factory; purchase and control of raw materials; labour and its control; wage systems, welfare work; reorganization of a factory; committee system; location of industries; principles and types of management; departmental relations; standardization and equipment; standardized operations; adequate records; efficiency rewards; organizations for the development of trade.

Tues., Thurs., Sat., at 11.....Professor Thompson.

CHEMISTRY

The courses open to Commerce students are, as already indicated, Chemistry 1A or Chemistry 1B, without laboratory, or Chemistry 16 without laboratory. These courses include a study of the more important elements and compounds, general laws and principles and fundamental theories; with as many industrial applications as time will allow.

COMMERCIAL LAW

The syllabus of work in this subject is under revision and will be published separately before the beginning of the session 1940-41. The work in this subject (beginning in the session 1940-41 with the third year course) will henceforth be given as part of the regular schedule of lectures and not in conjunction with the Evening Accountancy Diploma course.

Third Year

Tues., Thurs., and Sat., at 12.....Mr. P. F. Vineberg.

Fourth Year

Tues., Thurs., 5.30 to 7 p.m.....Messrs. W. C. Nicholson, K. A. Wilson, L. Rodier, and A. I. Smith.

ENGLISH

The courses in English give a general training in Composition and require a broad study of English Literature with a large amount of reading.

First Year

English 2, Literature, and Composition, as prescribed for students in the Faculty of Arts and Science—a general course, Readings and weekly individual conferences. Two hours a week. Professors Macmillan, Noad, Miss Mackenzie, Mr. Chapman, and assistants.

Second Year

English Literature: Choice of Second Year Arts and Science courses.

Third or Fourth Year

A choice of any General Arts and Science courses in English in these years.

FRENCH

Commerce students studying French take the regular Arts and Science courses in this language. For details of the courses available and the times of lectures see the Announcement of the Faculty of Arts and Science.

GERMAN

The Arts and Science courses in German are available to Commerce students.

LAW

Third and Fourth Years

Jurisprudence.

This course is an enquiry into the nature and function of Law, its relation to society and the state, and a review of the principal institutions of a state.

Mon., Wed., Fri., (hours to be arranged) .....Professor Corbett.

International Law.

This course consists of an enquiry into the origin and nature of International Law, its scope and authority, and its history and contemporary development.

Mon., Wed., Fri., (hours to be arranged) .....Professor Corbett.

(The courses in Jurisprudence and International Law are open to all students in the Faculty of Arts and Science in their third and fourth years.)

MARINE INSURANCE AND TRANSPORTATION

The documents involved in overseas commerce, the essential features of bills of lading and charter parties, and existing legislation affecting the rights and obligations of carriers and shippers; the origin and development of General Average and Maritime Salvage, and the existing law and practice; the Marine Insurance Act 1906, the existing procedure with regard to the insurance of vessels, cargo and freight, the analysis of current policy forms, and the adjustment of claims.

Wed., at 12.....Mr. F. S. Symons.

MATHEMATICS

Old Course

1. Mathematics (For First Year students).
Geometry and Trigonometry. Three hours, first term.
Algebra. Three hours, second term.

Mon., Wed., Fri., at 11.....Professor Tate.

15. Mathematics. (For Second Year students).
Elements of Coordinate Geometry and Calculus with applications.

Mon., Wed., Fri., at 12.....Professor Tate.

16. Mathematics. (For Third and Fourth Year students; same as 8 in Faculty of Arts and Science.
Advanced Algebra and Theory of Interest.

Tues., Thurs., Sat., at 11.....Professor Tate.

17. Mathematics. (For Fourth Year students).
Theory of Life Contingencies.

Tues., Thurs., Sat., at 12.....Professor Tate.

The following Arts and Science courses in Mathematics are also open to qualified students in the School of Commerce during the Second, Third and Fourth Years:—

2. Elementary Analysis.

Mon., Wed., Fri., at 10.....Dr. Ross.

3. Calculus.
Three hours during the session, Mon., Wed., Fri., at 10.
Professor Sullivan.

4. Algebra and Analytical Geometry.

Three hours during the session, Tues., Thurs., Sat., at 12... Dr. Ross.

(*a*) Courses 3 and 4 are mainly intended for students who wish to enter the Actuarial profession.

(*b*) Courses 15 and 16 are prerequisite for 17.

New Course

First Year

1. (a) Geometry and Trigonometry. Three hours, first term.

Geometry as in Hall and Stevens, School Geometry, Parts I to VI.

Trigonometry: Angles of any magnitude. Trigonometric functions of a single angle. Trigonometric functions of two or more angles. Solution of trigonometric equations. Relations between the sides and angles of a triangle. Solution of triangles with logarithms. Inverse functions.

(b) Algebra. Three hours, second term.
Ratio, proportion and variation; arithmetic, geometric and harmonic progressions; theory of quadratic equations; logarithms; permutations and combinations; binomial theorem; graphical calculus.

Second Year

15. Elements of Coordinate Geometry and Calculus:

The coordinate geometry of the straight line, circle, parabola, eclipse and hyperbola. Elementary curve fitting.

The derivative; differentiation of algebraic, logarithmic, exponential and trigonometric functions; applications of the derivative to the determination of maxima and minima, rates, etc.; expansion of standard functions in series; definition and methods of integration; the definite integral; applications and interpretations of intervals.

Calculus of finite differences, with easy applications to the summation of certain series, construction of tables and interpolation.

PHYSICS

1. General Course. (With Arts and Science).
Mon., Wed., and Fri., at 2, (or at 3 by permission); laboratory, Tues., 2-4, or Wed. 4-6, or Thurs. 2-4.....Professor Keys, Professor Froman and Demonstrators.

Text-books:—College Physics, Mendenhall, Eve and Keys (Heath and Co.); An Elementary College Course in Experimental Physics (Renouf Publishing Co.).

1B. Outline of Physical Science.* (With Arts.)
Mon., Wed., Fri., at 12; (laboratory, 10 periods only, Wed. 4-6 or by arrangement).

Reference books:—Mendenhall, Eve and Keys, College Physics (Heath); Russell, Dugan and Stewart, Astronomy and Astrophysics, Vols. I, II (Ginn).

First Year students choosing Physics will in general take course 1, but courses 1 and 1B are also available for students in any year, who are free to attend at the assigned hours.

PSYCHOLOGY

1. Introduction to Psychology. Second Year.
Mon., Wed., at 10 and one weekly laboratory period to be arranged. This course is a prerequisite for all other courses.

Professor Tait.

10. Individual Differences and their Measurement. Third and Fourth Years.

Origins and growth of individual differences; methods of testing and rating; theories of organization of personality traits; applications in educational and vocational guidance. Students may devote some time to practical testing; if facilities are available.

Mon., Wed., Fri., at 9.....Professor Morton.

11. Psychological Problems in Business and Industry. Third and Fourth. Years.

Topics include the selection and training of employees; analysis of work-methods; accidents; fatigue and boredom; incentives, employer-employee relations; selling, advertising and market research.

Mon., Wed., Fri., at 12.....Professor Morton

Text-book:—Moore, Psychology for Business and Industry.

SCIENCE IN ECONOMIC LIFE

These courses are designed to give the student an understanding of the various factors in man's physical environment that determine his manifold activities and his ability to utilize them to his advantage. In general, these factors are the subject matter of several physical sciences.

*Not offered in '40-'41.

1. Earth and Related Sciences.

The various units of the earth's surface and their effects on climates and other features are discussed. The influence of these units on the occurrences of metals, non-metals, forest and agricultural products is considered along with the fundamental problems of transportation and power.

2. Physics.

The student is introduced to the general aspects of physics, and from these the treatment leads to a consideration of how forces affect matter. The generation, transmission, and utilization of power.

3. Chemistry.

Chemistry has two classical subdivisions, organic and inorganic, and both with their many ramifications determine the ways in which matter can be made to serve man and, therefore, be of economic importance to him. The general and most useful principles of chemistry are treated so that the student can appreciate the rôle this science plays in modern industry.

SPANISH

(See Arts and Science Announcement).

ACCOUNTANCY DIPLOMA COURSE

COMPULSORY COURSES

For students of the Accountancy Associations of the Province of Quebec.

For fees see page 384.

These courses are compulsory for students of the Accountancy Associations of the Province of Quebec and are primarily intended for them, but they are also open to any others who wish to take them. Certificates will be granted to those who pass the examinations.

Students register and pay the required fee at the first or second lecture of the course they are taking.

For details concerning the Accountancy Associations students should consult:—

Mr. C. F. Elderkin, B.Com., Secretary, The Society of Chartered Accountants of the Province of Quebec, Royal Bank Building.

Mr. A. J. M. Petrie, C.P.A., Secretary, Corporation of Public Accountants of the Province of Quebec, 360 St. James St. West.

Mr. H. J. Ross, L.I.A., Secretary, Institute of Accountants and Auditors, 771 Burnside Street.

ELEMENTS OF ACCOUNTING.

A pass from this course is a pre-requisite to Intermediate Accounting and Auditing.

Twenty-five lectures of two hours each, given on Mondays, from 8-10 p.m., commencing September 30th, 1940.

The work covers matter outlined for the first year of the regular Commerce course, and is intended for less experienced students. Students who have passed in First Year Accounting at McGill University, or in Senior Matriculation in Accounting, are exempted from attendance at this course and its examination.

Lecturer.....Mr. G. B. A. Hall
Demonstrator.....Mr. D. Luterman

INTERMEDIATE ACCOUNTING AND AUDITING (Part 1).

Twenty-five lectures of two hours each, given on Wednesdays, from 8 to 10 p.m., commencing October 2nd. Students will be required to hand in home-work for correction and return.

Principles for Operating Statements and Balance Sheets; Partnerships, formation, special problems, dissolution, sale to an Inc. Coy.; Goodwill; Incorporated Companies, organization, share capital, bonds, annual meetings, statements, auditors; Manufacturing; Exceptional Losses;

Departmentalization, distribution of expenses and income; Principles of Cost Accounting; Depreciation; Comparison of Operating Statements; Auditing; Working Papers, etc.

Lecturer.....Mr. D. R. Patton
Demonstrator.....Mr. E. Hamilton

INTERMEDIATE ACCOUNTING AND AUDITING (Part II).

Twenty-five lectures of two hours each, given on Wednesdays, from 8-10 p.m., commencing October 2nd. Students will be required to hand in home-work for correction and return.

Balance Sheet valuations, current and fixed assets and liabilities, depreciation, wasting assets, requirements of Companies' Acts; classification of shares, issue, etc., of share capital, underwriting, forfeited and treasury stock, Capital and Revenue Profits and Losses; Earned, Capital and Distributable Surplus, Uncompleted Contracts, Cash and Stock Dividends; Critical Analysis of Operating Statements and Balance Sheets, reports; Rights, duties and responsibilities of Auditors; types and characteristics of Audits; Internal check; Audit of operations; verifications of assets and liabilities; Bank reconciliations; Audit Programme; Auditor's Certificate and Report; Investigations for Fire Losses, etc.; Branch a/c.; Reconstructions and Reorganizations of companies; Mergers and Consolidations; Holding Companies and Subsidiaries, Minority interests.

Lecturer.....Professor R. R. Thompson
Demonstrator.....Mr. C. K. Anderson

Passes from the examinations of Parts I and II of the Intermediate Accounting and Auditing course are pre-requisites to sitting for the Intermediate Examination in Accounting and Auditing of the Society of Chartered Accountants, Quebec.

FINAL ACCOUNTING AND AUDITING (Part I).

50 lectures of two hours each given Mondays and Thursdays, from 8 to 10 p.m., beginning September 30th, 1940. Students will be required to hand in home-work for correction and return.

Capital, its issue and recording in the books of a company; bonds and bond discounts and premiums; current and fixed assets and liabilities; capital and revenue profits and losses; criticism of operating statements and balance sheets for successive periods; cost accounting; partnership; instalment sales; branch accounts; holding companies and subsidiaries; reorganizations; mergers and amalgamations; executorship and trustee accounts; bankruptcy; income tax; insurance and banking; working papers; investigation; auditing generally.

Lecturers: (Mondays).....Mr. P. F. Seymour
(Thursdays).....Mr. A. W. Gilmour
Demonstrators: (Mondays).....Mr. A. V. Harris
(Thursdays).....Mr. G. B. A. Hall

NOTE:—This course includes certain subject matter which is now included in the Intermediate Accounting and Auditing course, and is included in this course for the last time this session, so that it will be available to students of the Intermediate Accounting and Auditing course of 1937-38, the last before this change was made.

FINAL ACCOUNTING AND AUDITING: (Part II).

(Development of Applied Theory of Accounting and Auditing.)

Twenty-five lectures of two hours each, given on Wednesdays, from 8 to 10 p.m., commencing October 2nd, 1940. Students will be required to hand in home-work for correction and return.

This course will be devoted mainly to special industrial and other concerns, such as bond and investment houses, lumbering, mining, etc. It also supplements Part I with further problems and examples.

Lecturer.....Mr. P. F. Seymour
Demonstrator.....Mr. P. K. Nutt

NOTE: The subject matter of both Parts I and II of the Final Accounting and Auditing course will be revised for the session 1941-42.

A Pre-Final Examination in Accounting and Auditing will be held each year for those who have completed the Final Accounting and Auditing courses. A pass from this examination is a pre-requisite to sitting for the Final Examination in Accounting and Auditing of the Society of Chartered Accountants, Quebec.

INTERMEDIATE MATHEMATICS

Twenty lectures of 1 hour each on Algebra and twenty lectures of 1 hour each on Theory of Interest, given on Fridays, from 6 to 8 p.m., commencing October 4th, 1940.

Arithmetic and geometric progressions; indices; logarithms; permutations and combinations; binomial theorem; theory of quadratic equations; approximations; graphs, simple and compound interest; annuities and sinking funds.

Text-books:—N. R. Wilson and L. A. H. Warren, An Intermediate Algebra (Oxford University Press, Toronto). H. Tate, Elements of the Mathematical Theory of Interest (Chaps. I, III, IV).

Lecturer.....Professor Herbert Tate

FINAL MATHEMATICS

ELEMENTS OF ACTUARIAL SCIENCE.

Twenty lectures of 1 hour each on Theory of Interest and twenty lectures of 1 hour each on Insurance and Statistics, on Wednesdays, from 6 to 8 p.m., beginning October 2nd, 1940.

The course embraces:—

The amortization schedule; straight-term, serial and annuity bonds; depreciation; building and loan associations. Elementary Insurance. Elementary Statistics.

Lecturer.....Professor Herbert Tate

Text-books:—H. Tate, Elements of the Mathematical Theory of Interest (chapters I-VIII); J. B. Maclean Life Insurance; S. Huebner, Life Insurance; S. Hays, An outline of Statistics (Longmans, Green & Co., Toronto).

INTERMEDIATE COMMERCIAL LAW

Forty-eight lectures, of 1½ hours each, given on Tuesdays and Thursdays, from 5.30 to 7 p.m., commencing October 1st, 1940.

The syullabus of work in this subject is under revision and will be published separately before the beginning of the session 1940-41.

Lecturers:—Messrs. K. A. Wilson, L. Rodier, A. I. Smith, W. C. Nicholson.

FINAL COMMERCIAL LAW

Forty-four lectures, of 1½ hours each, given on Tuesdays and Thursdays, from 5.30 to 7 p.m., beginning October 1st, 1940.

The syllabus of work in this subject is under revision and will be published separately before the beginning of the session 1940-41.

Lecturers:—Messrs. W. C. Nicholson, K. A. Wilson, L. Rodier and A. I. Smith.

ECONOMICS

Course of 20 lectures, of 1 hour each, on Elementary Economics. On Fridays, from 6 to 7 p.m., beginning October 4th, 1940.

Lecturer.....Mr. P. F. Vineberg

EXAMINATIONS

Examinations are held at the end of each of these courses. See special notes regarding the Accounting and Auditing Examinations.

PASS MARKS.

In Economics and Mathematics the pass-mark is 60%.

A student who obtains less than 40% in any of the examinations of these courses must repeat both the course and all the examinations of the course.

A student who fails but obtains 40% or more is required only to repeat all the examinations of the course. (For fees for re-examination see page 384.)

In Intermediate and Final Commercial Law the pass mark is 50% in each paper with an average of 55% in the course as a whole. Any student who fails in any paper in Commercial Law must repeat both the course and all the examinations of the course, but any student who passes in each paper but fails to obtain the 55% average is required only to repeat the examinations of the course.

ADVANCEMENT.

Candidates may not proceed from the Intermediate to the Final stage of a subject, until they have passed its Intermediate Examination. No student can sit for the Final Examination in Accounting and Auditing who has not passed all his Intermediate examinations and Final examinations in Commercial Law, Mathematics and Economics, and, in the case of registered clerks of the Society of Chartered Accountants, Quebec, the Pre-Final Examination in Accounting and Auditing.

APPLICATIONS.

Students wishing to re-write any of these examinations must apply in writing, before March 25th, to the Acting Director. Applications must be accompanied by the required fee (see page 384). Candidates must also state when the lectures in connection with each examination were taken.

Students who reside outside of Montreal and district and are therefore not qualified by attendance at the course may write the examinations on payment of the required fee (see page 384). Applications must reach the Acting Director before March 25th.

OUTSIDE EXAMINATION CENTRES.

Outside examination centres may be established in special circumstances. Applications should be made to the Acting Director before March 25th. Candidates will be required to pay all invigilation and other expenses, in addition to the regular examination fee.

POSSIBLE PLAN OF A STUDENT'S STUDIES.

The normal student, who does not have to repeat courses, could plan his studies as follows over his five years of registered service:—

First: Intermediate Mathematics (Fridays, 6-8 p.m.).
Elements of Accounting (Mondays, 8-10 p.m.).

Second: Intermediate Accounting and Auditing, Part I (Wednesday, 8-10 p.m.).
Intermediate Commercial Law (Tuesdays and Thursdays, 5.30-7 p.m.).

Third: Intermediate Accounting and Auditing, Part II (Wednesdays, 8-10 p.m.).
Final Commercial Law, (Tuesdays and Thursdays, 5.30-7 p.m.).

Fourth: Final Accounting and Auditing, Part I, (Mondays and Thursdays, 8-10 p.m.).
Final Mathematics (Wednesday, 6-8 p.m.).

Fifth: Final Accounting and Auditing, Part II (Wednesdays, 8-10 p.m.).
Political Economy (Fridays, 6-7 p.m.).

LICENTIATE IN ACCOUNTANCY

FINAL EXAMINATION IN ACCOUNTING AND AUDITING

The Final Examination in Accounting and Auditing for those wishing to obtain the Diploma of Licentiate in Accountancy is held about the beginning of December each year, before a joint board of examiners.

Applications and Fees.

Application to write the examination must be made in writing before October 25th, to the Acting Director, School of Commerce. Applications must be accompanied by the special examination fee of $25. Applications must also be accompanied by a certificate of one year's apprenticeship in the office of a practising accountant.

Pass Marks.

In order to pass a student must obtain 60% or more of the marks assigned, with not less than 55% in either of the subjects. A student who fails may, on repayment of the examination fee, present himself again for the examination in the following year.

Outside Centres.

Candidates writing the Final Examination in Accounting and Auditing in outside centres (see page 380) will be required to pay a fee of $50. This includes the $25 examination fee, and covers invigilation and other expenses.

Chartered Accountants.

INTERMEDIATE AND FINAL EXAMINATIONS IN ACCOUNTING AND AUDITING

These examinations are held about the beginning of December of each year by the Society of Chartered Accountants of the Province of Quebec.

Those who wish to sit must have attended the compulsory courses on pages 376-377 leading up to the examinations, and have passed the examinations of those courses as follows:—

Before Sitting for the Intermediate Accounting and Auditing.

Elements of Accounting,
Intermediate Accounting and Auditing, (Parts I and II),
Intermediate Mathematics,
Intermediate Commercial Law.

BEFORE SITTING FOR THE FINAL ACCOUNTING AND AUDITING:

Final Accounting and Auditing (Parts I and II),
Final Mathematics,
Final Commercial Law,
Political Economy.

They must also make application to the Secretary of the Society of Chartered Accountants of the Province of Quebec, and satisfy him that they have complied with all of the Society's requirements.

CORPORATION OF PUBLIC ACCOUNTANTS.

The Final Examination in Accounting and Auditing will be held once a year on days and dates to be fixed by the University after consultation with the Corporation. The Board of Examiners for the said Final Examination will consist of five members, two to be appointed by the University and three by the Corporation. The consent of three members of the Board of Examiners shall be necessary to pass any candidate.

Those, who wish to sit, must have attended the compulsory courses on pages 376-377 and have passed the examinations of those courses, with the exception that it is not essential to have passed the Pre-Final Examination in Accounting and Auditing.

They must also make application to the Secretary of the Corporation of Public Accountants of the Province of Quebec, and satisfy him that they have complied with all of the Corporation's requirements.

SUPPLEMENTARY COURSES

The following courses are not required by the Accounting Associations but are offered by the University to supplement the required courses. An examination is held at the end of each course.

FUNDAMENTALS OF COST ACCOUNTING

Thirty lectures of one hour each given on Mondays from 8-9 p.m., commencing September 30th, 1940.

This course deals with the fundamentals of Cost Accounting from the opening entries to the presentation of the Statements and Reports, discussing the following subjects: Purposes, Advantages and Installation of Cost Systems; Process and Job Costs; Elements of Cost; Purchasing, Consumption and Accounting for Materials; Perpetual Inventories and Stores Control; Accounting for Labour Costs; Wage Systems; Accounting for Manufacturing Expenses and their apportionment over departments and distribution to production; the Cost to Make and Sell; Production Records; Control of the Cost records by the General Accounts; Operating and Financial Statements and Cost Reports.

Lecturer.....Mr. D. R. Patton

ADVANCED COST ACCOUNTING

Thirty lectures of one hour each, given on Mondays, from 6.30 to 7.30 p.m., commencing September 30th, 1940.

This course is designed for those having an elementary knowledge of Cost Accounting principles and procedure. It considers estimating cost systems, budgetary control, Standard Costs, Interest on Investment, Uniform Cost Methods, Building up a Cost Sheet, Debatable Methods of Procedure, Defective and Spoiled Work, By-Products, Idle and Non-Productive Time, Weighted Averages, Relative Values, Statistical and Graphical Cost Reports, Statements.

Lecturer.....Mr. D. R. Patton

INDUSTRIAL MANAGEMENT

Thirty lectures of one hour each on Mondays from 7.45 to 8.45 p.m., commencing September 30th, 1940.

This course is designed primarily to cover the various problems which are encountered in managing an industrial establishment. It covers legal and internal forms of organization; location, construction and lay-out of plant; purchasing, production, advertising, sales, shipping and traffic; finance, accounting, engineering, power, maintenance and executive control; employment, wage systems and welfare work; industrial relations and leadership.

Lecturer.....Mr. Ray H. Bissell

FEES IN THE ACCOUNTANCY DIPLOMA COURSE

Fees in the special Accountancy Diploma Course for students of the Accountancy Associations of the Province of Quebec:—

Elements of Accounting	$25.00
Accounting and Auditing (Intermediate) Part I	25.00
" " " " Part II	25.00
" " " (Final) Part I	40.00
" " " " Part II	25.00
Commercial Law (Intermediate)	30.00
" " (Final)	30.00
Mathematics (Intermediate)	20.00
" (Final)	20.00
Economics (Final)	15.00
Final Accounting and Auditing Examination Fee	25.00

(See page 381)

Supplementary Courses

Fundamentals of Cost Accounting	20.00
Advanced Cost Accounting	20.00
Industrial Management	20.00

Examinations

Students who reside outside of Montreal and district, and who wish to take the examinations, but who are not qualified by attendance at the course, pay a special examination fee, equivalent to half the regular fee for the course, viz:—

Elements of Accounting	$10.00
Accounting and Auditing (Intermediate) Parts I or II	10.00
" " " (Pre-Final)	20.00
Commercial Law (Intermediate)	10.00
" " (Final)	10.00
Mathematics (Intermediate)	10.00
" (Final)	10.00
Economics (Final)	10.00

Fees for Re-examination

Elements of Accounting	$ 5.00
Intermediate Accounting: Part I	5.00
" " Part II	5.00
" Auditing	5.00
Pre-Final Examination Accounting and Auditing	10.00

Commercial Law (Intermediate)	15.00
Commercial Law (Final)	15.00
Mathematics (Intermediate)	5.00
Mathematics (Final)	5.00
Economics (Final)	5.00

Evaluation and Registration of Certificates

Evaluation and registration of certificate exempting from the whole or part of the McGill Junior Matriculation Certificate	$2.00

McGILL UNIVERSITY

MONTREAL

FACULTY OF ENGINEERING

1940 - 1941

PAGE

Administrative Officers ... 405
Admission ... 407
Admission from the Science Division ... 408
Advanced Standing for Graduates in Arts and Science ... 412
Affiliated Colleges ... 411
Applied Mechanics ... 443
Architecture:—
  Admission to ... 407
  Course in ... 416
  Subject of ... 436
Attendance ... 410

Bursaries ... 412

Certificates Recognized ... 409
Chemical Engineering, Course in ... 420
Chemistry ... 440
Civil Engineering:—
  Course in ... 422
  Subject of ... 443
Classification of Marks ... 414
Colleges, Affiliated ... 411
Committees ... 405
Courses of Instruction ... 415
Curriculum ... 415

Degrees ... 412
Descriptive Geometry ... 445
Discipline ... 411
Drawing ... 445

Economics ... 448
Electrical Engineering:
  Course in ... 423
  Subject of ... 446
Engineering Courses ... 419
Engineering Law ... 448
Engineering Physics ... 459
Engineering Practice ... 448
Engineering Societies ... 414
Entrance Requirements ... 407
Essays ... 431
Examinations ... 413

Fees ... 411
Field Schools ... 430, 455, 456, 461

	Page
First Year Course	419
Geodesy	460
Geological Sciences	448
Health Service	409
Law for Engineers	448
Loan Funds	412
Marks, Classification of	414
Mathematics	449
Mechanical Engineering:—	
Course in	424
Subject of	450
Medical Examination	409
Metallurgical Engineering:—	
Course in	426
Subject of	456
Mineralogy	448
Mining Engineering:—	
Course in	429
Subject of	454
Physics	458
Physics, Engineering	459
Registration	409
Sanitary Science	444
Scholarships	412
Second Year Course	420
Senior Matriculation	407
Societies	414
Standing and Promotion	461
Subjects of Instruction	436
Summer Essays and Reading	431
Summer Schools	430
Surveying	460

McGILL UNIVERSITY

FACULTY OF ENGINEERING

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, B.Com., M.A., Ph.D., F.R.S.C.
Dean of the Faculty of Engineering...Ernest Brown, M.Sc., M.Eng.
Acting Director of the School of Architecture.....Philip J. Turner, F.R.I.B.A., F.R.A.I.C.
Secretary and Bursar.....F. O. Stredder, M.A., Ph.D.
(on military service)
Registrar.....T. H. Matthews, M.A.
Acting Bursar.....William Bentley, C.G.A., A.C.I.S.
University Librarian.....Gerhard R. Lomer, M.A., Ph.D., F.L.A.
Superintendent of Buildings.....P. W. MacFarlane.
Secretary of the Faculty.....R. DeL. French, B.Sc., C.E., Mem. Am. Soc. C.E.
Secretary of the School of Architecture..John Bland, B.Arch.

STANDING COMMITTEES OF THE FACULTY

ADMISSION TO ADVANCED STANDING FROM OTHER UNIVERSITIES

Professors Roberts (*Chairman*), MacLean, and Jamieson

EXAMINATIONS AND TIME TABLES

Professors Kelly (*Chairman*), Wood, Phillips, and Coote

REGISTRATION, STANDING, AND PROMOTION

Professors McKergow (*Chairman*), MacLean, Jamieson, Phillips, and MacEwan

EMPLOYMENT

Professors French (*Chairman*), Christie, and Roberts

ADVISORY COMMITTEE ON THE SCHOOL OF ARCHITECTURE

Professor Turner (*Chairman*), Messrs. E. I. Barott, H. L. Fetherstonhaugh, J. C. McDougall, ...

A complete list of the teaching staff of the University, including the the Faculty of Engineering, is printed as a separate announcement which may be obtained from the Registrar's Office.

FACULTY OF ENGINEERING

ENTRANCE REQUIREMENTS

ARCHITECTURE

For admission to the School of Architecture, candidates must pass the Junior Matriculation Examination in the following subjects:—

Group	No. of Papers	
1.	2	English.
2.	1	History.
3.	2	One of the following:— French, German, Spanish, Latin, Greek.
4.	2	Elementary Mathematics.
5.	2	Intermediate Mathematics.
6.	1	One of the following:— Botany, Chemistry, Physics, a language not already chosen.
	—	
Total	10	papers.

To pass, a candidate must obtain an average of 60% in the ten papers and not less than 40% in any one paper, and must show distinct mathematical ability. Details of the syllabi are given in the General Announcement.

Candidates must also satisfy the Head of the Department as to their proficiency in Freehand and Geometrical Drawing. To this end they may send in specimens of their work before September 20th, or they may take an examination at the time of the regular matriculation examination in that month.

ENGINEERING

Candidates may qualify for admission to the Faculty of Engineering either by completing the first B.Sc. year of the Faculty of Arts and Science, including the pre-engineering course in Mathematics, or by passing the Senior Matriculation Examination in the following subjects:

(a) *Compulsory:*—
English, Mathematics (three papers: Algebra, Plane Geometry and Trigonometry, and Co-ordinate Geometry), Physics, Chemistry.

(b) *Elective:*—
Any one of the following:—History, Biology, French, German, Greek, Latin, Spanish.

The pass-mark in each Senior Matriculation paper is 50%. The examinations are held in June and September. Full details are given in the General Announcement, which may be obtained from the Registrar's Office.

For a list of other certificates recognized, see below.

Students entering Engineering by means of first year B.Sc. are strongly recommended to take Intermediate Mathematics in their Junior Matriculation. Failure to do so will not disqualify a student but will entail additional work in this subject in the pre-engineering year.

Students intending to enter the course in Chemical Engineering are advised to take at least a year of German before entering the Faculty.

ADMISSION REGULATIONS FOR STUDENTS ENTERING FROM THE SCIENCE DIVISION

1. A student who has passed in May or September all the subjects of the First Year of the B.Sc. course of the Faculty of Arts and Science may enter the Faculty of Engineering without conditions.

2. A student who has failed in any of the papers in Mathematics, Physics, or Chemistry (including Chemistry 1L) will not be admitted.

3. A student who has failed in one subject only (other than Mathematics, Physics, or Chemistry) may be admitted with a condition in this subject if, and only if, his average standing in Mathematics, Physics, and Chemistry is at least Second Class.

English 1 and 2 are counted as *two* subjects.

4. A student who has failed in more than one subject will not be admitted.

5. Students who after the May examinations are qualified to enter under Section 3 are strongly advised to try and remove their condition by writing the September supplemental before entering the Faculty of Engineering. Failure to remove a pre-engineering condition usually proves a serious handicap, and special regulations governing graduation apply to students who fail to remove such a condition after three attempts, including the initial failure.

APPLICATION FOR ADMISSION

Students desiring to enter the Faculty of Engineering must make applications on forms which may be obtained from the Registrar's Office. Completed forms must reach the Registrar before September 14th.

CERTIFICATES RECOGNIZED

Candidates will be admitted into the faculty only if they show an adequate preparation and ability in mathematics.

With this condition, the following certificates will be accepted in lieu of the Senior Matriculation Examination, in so far as they meet the requirements:—Upper School Certificates of the Province of Ontario; Grade XII Certificates of the Provinces of Quebec, Nova Scotia, Manitoba, Alberta and Saskatchewan; the Third Year Certificates of the Prince of Wales College, P.E.I.; the Senior Matriculation Certificates of British Columbia and Newfoundland; and the Higher Certificates of the Oxford and Cambridge Schools Examination Board, the Oxford and Cambridge Local Examination Boards, the English Northern Universities Examinations Board, the Central Welsh Board, and of Durham, Bristol, and London Universities.

HEALTH SERVICE

Information concerning the University Health Service will be found in the General Information Pamphlet enclosed with this Announcement.

Those engaged in certain branches of mining and metallurgical work are subject by Provincial authorities and mining companies to regulations regarding physical fitness, with particular reference to chest conditions and sight. Students registering for courses in Mining or in Metallurgical Engineering are therefore required to undergo a special medical examination to determine their fitness. Convenient arrangements are made through the University Medical Officer for such examinations. While assisting students to determine their degree of fitness, the University assumes no responsibility for decisions made by those administering the regulations referred to above.

REGISTRATION, ATTENDANCE, DISCIPLINE, AND FEES.

REGISTRATION

Students entering the Faculty of Engineering for the first time must register at the Registrar's Office from September 23rd to 28th (until noon on the 28th) inclusive.

Other students register in the Macdonald Engineering Building on Friday, September 27th, but those who have no prerequisite conditions may register from September 23rd to 28th (until noon on the 28th) inclusive, at the Registrar's Office. Students registering after September 28th, but not later than October 5th, are required to pay a late registration fee of $5, which fee is increased to $10 for students registering after October

5th. This fee is not refunded except by authorization of the Faculty. After October 15th, no student is admitted except by special permission of the Faculty.

ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one subject. The Faculty of Engineering has the authority of Senate to modify this regulation except as regards students of the First Year, but only in so far as attendance at lectures is concerned. The Faculty regulations governing attendance are bulletined at the opening of each session. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course in which attendance is compulsory are not permitted to sit for the regular examinations in that course, and those whose unexcused absences in such courses have exceeded one-fourth of the total number of lectures must repeat the work in that course.

Excuses on the ground of illness or domestic affliction are dealt with by the Dean only.

An excuse for absence due to illness is granted only when the application is accompanied by a certificate from the attending physician. Applications for all excuses must be filed with the Dean within three days after the period for which the excuse is requested.

Excuses granted must be shown to all professors concerned as promptly as possible.

2. An attendance record is kept by each instructor, which is submitted to the Faculty when required.

3. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. In the case last mentioned the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline after admonition by the Professor, is reported to the Dean. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend the student from classes.

4. Lectures commence at five minutes after the hour. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they report themselves at the close of the lecture and are marked "late." Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of these exercises are marked absent.

DISCIPLINE

The University Regulations concerning discipline are administered by the several Faculties, subject, when necessary, to revision or confirmation by Senate.

FEES

The regular fees and special fees are given in the General Information Pamphlet included in this Announcement.

SPECIAL FEES IN ENGINEERING.

Summer Schools.—Students attending the Summer Schools in May or September pay $35 each before entering these schools; $25 of this amount is credited to the student's account for the following session, and the balance of $10 is caution money which will be returned at the close of the School.

DATES FOR PAYMENT.

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 4 p.m., Saturday 9 a.m. to noon, on the following dates:—

Monday, September 23rd
to
Saturday, September 28th

or if desired fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the above paragraph

Immediately after the prescribed dates for the payment of fees, the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

All fees are payable in Canadian currency.

COLLEGES AFFILIATED WITH THE FACULTY OF ENGINEERING

The conditions on which students may enter from certain colleges and universities are stated below. Such students, and others seeking similar advanced standing, should make application to the Dean of the Faculty, preferably not later than the end of July. All such students are subject to the regulations of the Faculty regarding experience in practical work and physical examination (see pages 431, 409). Due allowance is made for courses in shopwork forming part of the curricula in the colleges in which they have previously studied.

Acadia, Alberta, Mount Allison and St. Francis Xavier Universities are affiliated with McGill University to the extent that students who have completed the two-year courses in engineering given by these universities are admitted to the Third Year in any of the engineering courses in the Faculty of Engineering, except that in Chemical Engineering, for which special arrangements are at present necessary.

Students from these universities entering the Third Year must take the summer school pertaining to their courses in May, or the special school in September, which will open in 1940 on September 3rd in Mechanical Engineering, and on September 12th in Civil Engineering and Mining Engineering.

Royal Military College.—The regular four year course at the Royal Military College has been replaced by a special war-time course of two years. The regulations concerning the admission into Engineering of graduates of this short course may be obtained from the Registrar's Office.

University of Cambridge.—Arrangements have been made whereby graduates and students of the Mechanical Science course in the University of Cambridge are admitted to advanced standing in the Faculty of Engineering under definite regulations, particulars of which can be obtained from the Dean of the Faculty.

SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS, AND LOAN FUNDS

Details of Scholarships, Bursaries and Loan Funds will be found in the Announcement of Scholarships, Bursaries and Loan Funds which may be obtained from the Registrar's office.

ADVANCED STANDING FOR GRADUATES IN ARTS AND SCIENCE

Graduates in Arts and Science desiring to proceed to the degree of B.Arch. or B.Eng., should apply to the Dean, Faculty of Engineering, for information regarding the regulations governing such procedure.

DEGREES, EXAMINATIONS AND SOCIETIES

DEGREES

Degrees conferred by the University upon such undergraduates of the Faculty as fulfil the conditions and pass the examinations hereinafter stated are:—"Bachelor of Architecture" (B.Arch.), and "Bachelor of Engineering" (B. Eng.), mention being made in the diplomas of the latter of the particular course of study pursued.

Students who take the Bacheor of Engineering degree in one course may graduate in another course by attending one or more subsequent sessions and passing the prescribec additional examinations.

PRIVILEGES OF THE HOLDERS OF THESE DEGREES

Among the privileges enjoyed by graduates of the Faculty of Engineering the following may be specially mentioned:—

(1) By a resolution of the Institution of Civil Engineers of Great Britain, the holders of the degree of B.Eng. who are desirious of becoming Associate Members of the Institution, may be exempted from Parts A and B of the examinations prescribed for admission to the Institution.

(2) By the Dominion Lands Surveys Act, any graduate in civil or mining engineering may have his term of apprenticeship for the Dominion Land Surveyor's certificate shortened from three years to one.

(3) Holders of the degree of B.Eng. are admitted to practice in Quebec, upon graduation, provided they register with the Corporation of Professional Engineers of Quebec upon entering the Faculty. Students entering the Faculty should therefore obtain the necessary application forms from the Dean's office, complete them and return them to that office.

(4) The School of Architecture is recognized by the Royal Institute of British Architects, and the instruction given meets the requirements of the Board of Architectural Education of that body. Students who obtain the degree of B.Arch. are exempted from the final examination for the associateship of the Royal Institute excepting in the subject of Professional Practice, in which they are required to take a paper set by the Institute's examiners. On passing this they are eligible for candidature as Associate R.I.B.A.

(5) The Province of Quebec Association of Architects admits holders of the degree of B.Arch. to membership, and thereby to practice in the Province, on passing an examination in design after spending one year in the office of a member of the Association. This office experience may be gained during the summer vacations.

EXAMINATIONS

1. Final examinations are held in all lecture subjects. Class examinations, for which credit may be given in the sessional standing, are held at the option of the professor.

2. Students who have failed in one or more subjects of the curriculum, except in cases where they are called upon to repeat their year, are required to make good their standing by passing:—

(a) the regular supplemental examinations held immediately before the opening of the session, or

(b) the final examinations in a subsequent session.

Special examinations are given only under exceptional circumstances and by authority of the Faculty.

3. The pass standard in examinations in subjects in which the candidate has already failed twice is sixty per cent, and an unexcused absence from a sessional examination is regarded as a failure in this connection.

4. Failures in drafting and laboratory subjects may under certain conditions be made good by attending special classes during the late afternoons of the first two months of the following session. No student is permitted to attend these schools unless he has made at least 30% in the subject of the school. These classes must be completed and the results reported to the Faculty on or before December 1st.

5. No undergraduate is allowed to take instruction in any subject until he has passed the examinations in the necessary prerequisite subjects.

6. Classes.

Class I	80–100%
Class II	65– 79%
Class III	50– 64%

ENGINEERING SOCIETIES

1. Upon entrance into the Faculty, all undergraduate students automatically become members of the Engineering Undergraduate Society.

2. The students also support the Society of the Phi Epsilon Alpha. The members of this society are selected from graduates and undergraduates in Engineering, and its object is to encourage high standards of character and scholarship.

3. Students in all departments of engineering are strongly recommended to become student members of the Engineering Institute of Canada, for which a fee of $3 is required. They are then entitled to the Journal of the Institute, to the use of the Institute's building, 2050 Mansfield Street, and to attend the weekly meetings.

Students are invited to compete for the prizes which are offered by the Institute.

4. Students in Mining Engineering and in Metallurgical Engineering are strongly recommended to become members of the McGill Mining and Metallurgical Society, which, although a student body, is affiliated with the Canadian Institute of Mining and Metallurgy, the headquarters of which are in Montreal. Members of this Society receive the Monthly Bulletin of the Transactions of the Institute free, and are entitled to attend meetings and to compete for prizes offered.

COURSES OF INSTRUCTION

Instruction in this Faculty is designed to afford thorough training of a practical as well as theoretical nature, in the following branches:—

I—Architecture
II—Chemical Engineering
III—Civil Engineering
IV—Electrical Engineering
V—Mechanical Engineering
VI—Metallurgical Engineering
VII—Mining Engineering

A note concerning graduate courses follows the list of undergraduate courses in each department. Details are given in the Announcement of the Faculty of Graduate Studies and Research. A course is also offered in Engineering Physics, see page 459.

CURRICULUM

The curriculum as laid down in the following pages may be changed from time to time, as deemed advisable by the Faculty, and is in no case binding beyond the session covered by this calendar announcement.

The course for a degree in any branch of Engineering is one of four years, and for a degree in Architecture the course is a five-year one.

The degree in Engineering will not be conferred upon any candidate until he has passed the prescribed examinations of his course, and has submitted satisfactory evidence to the Faculty of having had six to nine months of experience in practical engineering work. Similar regulations apply to the degree in Architecture. The conditions regarding practical work in the School of Architecture are set forth under the heading of Summer Work, Courses 35, 36, 37, 38, on page 439. Forms, obtainable from the Dean's Office, must be signed by the employer and returned on or before 5 p.m. Thursday, October 24th, 1940.

The work prescribed for the first two years is the same in all Engineering courses, except in Chemical Engineering, Metallurgical Engineering and Mining Engineering.

The first two years of the Engineering courses (II to VII) are devoted to mathematics, mechanics, physics, chemistry and drawing, as it is necessary that students in these courses should master the general principles underlying scientific work before commencing professional subjects.

In certain courses, students are required to attend Summer Schools following the completion of the work of the session in the First, Second, and Third Years; for details, see page 430.

The regular work of the session 1940-41 will begin on September 30th, 1940, and end on May 29th, 1941.

I. ARCHITECTURE

The course for the degree of Bachelor of Architecture extends over five years.

FIRST YEAR

SUBJECT	Subject Number	Lecture hours per week		Drafting Room and other hours per week	
		First term	Second term	First term	Second term
Algebra	Arts I	3	3	..	..
Geometry and Trigonometry	Arts I				
Mechanics	194	2	2	..	..
Engineering Problems	80	..	..	3	3
Physics	Arts I	3	3	..	..
Physics Laboratory	Arts I	..	..	2	2
Elements of Architecture	4	1	1	..	..
History of Art	5	1	1	..	..
Architectural Drawing	8	..	..	11	11
Building Construction I	18	2	2	5	5
Freehand Drawing I	27	..	..	6	6
*Surveying Field Work	347	..	..	..	..
Total hours		12	12	27	27

*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year examinations. (See pages 430 and 461.)

Any undergraduate of the First Year in Architecture who at the close of the first term has failed to obtain an average of 33 per cent in mechanics, geometry and trigonometry, physics, freehand drawing and architectural drawing, may be required to withdraw from the Faculty.

Any other student of the First or any subsequent year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year in the School of Architecture whose studies have not been seriously interrupted by personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations, or in three such subjects aggregating over 300 possible marks, are required to repeat the work of the First Year, and while so doing are debarred from taking more advanced work.

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Drafting Room and other hours per week	
		First term	Second term	First term	Second term
Architectural Drawing II	9	..	..	8	8
Building Construction II	19	2	2	6	6
Architectural Engineering I	21	2	2	5	5
Surveying	346	2	2	..	..
Mapping	348	..	..	6	..
Freehand Drawing II	28	..	..	6	6
History of Classic Architecture	14	2	2	..	..
Summer Work	35	..	..	..	..
*Surveying Field Work	347	..	..	..	..
Architectural Essay	31	..	..	..	..
Total hours		8	8	31	25

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April. In the case of students entering from other Universities, this work should be done before entering the Second Year in Summer Schools, as shown on page 430.

All students of the Second Year in the School of Architecture who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in subjects aggregating 350 possible marks or over are required to repeat the Second Year.

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Drafting Room and other hours per week	
		First term	Second term	First term	Second term
Design A	1	..	..	15	15
Theory of Design	6	2	..	..	..
Architectural Engineering II	22	2	2	4	4
History of Architecture (Mediaeval or Renaissance)†	15 or 16	2	2	..	..
Ornament and Decoration**	10 & 11 or 12 & 13	1	1	3	3
Building Materials	20	..	1	..	..
Freehand Drawing III	29	..	..	6	6
Historical Drawing and Sketching School	26	..	..	4	4
Architectural Essay	32	..	..	..	..
Summer Work	36	..	..	..	..
Total hours		7	6	32	32

†The courses in Mediaeval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1940-41, the History of Mediaeval Architecture will be given.

**Ornament and Decoration, courses number 10 and 11, and 12 and 13, are given in alternate years. During the Session 1940-41, numbers 12 and 13 will be given.

NOTE.—In the School of Architecture after two failures in any subject a third examination will be granted only after the student concerned has taken special tuition of a character approved by the Department.

For summer reading, see page 431.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Drafting Room and other hours per week	
		First term	Second term	First term	Second term
Design B	2	..	..	22	22
Theory of Planning	7	2	..	..	..
Ornament and Decoration**	10 & 11 or 12 & 13	1	1	3	3
History of Architecture (Mediaeval or Renaissance)†	15 or 16	2	2	..	..
Hygiene of Buildings	23	2	..	..	..
Heating and Ventilation	24	..	1	..	1
Historical Drawing and Sketching School	26	..	..	4	4
Architectural Essay	33	..	..	..	..
Summer Work	37	..	..	..	..
Total hours		7	4	29	30

FIFTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Drafting Room and other hours per week	
		First term	Second term	First term	Second term
Design C	3	..	..	21	33
Professional Practice	25	1	1	3	3
History of Modern Architecture	17	2	2	..	..
Modelling	30	..	..	8	..
Architectural Essay	34	..	..	..	..
Historical Drawing and Sketching School	26	..	..	4	..
Summer Work	38	..	..	..	..
Total hours		3	3	36	36

†The courses in Mediaeval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1940-41, the History of Mediaeval Architecture will be given.

**Ornament and Decoration, courses numbers 10 and 11, and 12 and 13, are given in alternate years. During the Session 1940-41, numbers 12 and 13 will be given.

NOTE.—In the School of Architecture after two failures in any subject a third examination will be granted only after the student concerned has taken special tuition of a character approved by the Department.

For summer reading, see page 431.

ENGINEERING COURSES

The subjects of instruction in the First Year of the Engineering Courses (II to VII), and the number of hours per week devoted to each, are as follows:—

FIRST YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Elementary Physical Chemistry and Laboratory	51	2	2	1	1
Descriptive Geometry	341	2	2	4	4
Mechanical Drawing	340	..	..	3	3
Engineering Problems	80	..	..	3	3
History of Science	135	1	1	..	..
Spherical Trigonometry and Mensuration	191	2	..	..	..
Algebra	192	2	2	..	..
Calculus	193	..	4	..	..
Mechanics	194	2	2	..	..
Analytical Geometry	195	2	..	..	..
Physics and Laboratory	311-312	3	3	2	2
Surveying	345	..	2	..	..
*Surveying Field Work	347	..	..	..	..
Summer Essay, or Reading	132	..	..	..	..
Total hours		16	18	13	13

*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year examinations. (See pages 430 and 461).

Any undergraduate student of the First Year, who at the close of the first term has failed to obtain an average of 33 per cent in chemistry, mechanics, trigonometry, analytical geometry, algebra, physics, and descriptive geometry, may be required to withdraw from the Faculty.

Any other student of the First, or any subsequent Year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year taking the course for the first time, who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the First Year, in which standing is determined by sessional examinations, or in four such subjects aggregating 350 possible marks or over, are required to repeat the work of the First Year, and while so doing are debarred from taking any more advanced work.

The subjects of instruction in the Second Year of the Engineering Courses (III to VII), except in Chemical Engineering, Metallurgical Engineering and Mining Engineering, and the number of hours per week devoted to each are as follows:—

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Problems	80A	..	1	..	2
Engineering Reports	136	1	1	..	..
Mapping	348	..	..	6	..
Materials of Engineering	81	1	1	..	..
Calculus	198	2	4	..	..
Mechanical Drawing	344	..	..	3	3
Mechanics	83	2	2	2	2
Mechanics of Machines	218	..	1	..	3
General Geology	141	2	2	2	2
Physics and Laboratory	315-316	2	2	3	3
Surveying	346	2	2	..	..
*Surveying Field Work	347	..	..	..	..
Summer Essay or Reading	133	..	..	..	..
Total hours	..	12	16	16	15

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April (about April 27th) (see pages 430 and 461). In the case of students entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 430).

All students of the Second Year taking the course for the first time, who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, are required to repeat the Second Year.

II. CHEMICAL ENGINEERING

The aim of this Course is to provide a broad fundamental training, which, when supplemented by practical experience, will make the engineer competent to design and operate industrial plants and to understand the processes.

Part of the time in the Second Year is devoted to Chemistry, in addition to general Engineering subjects. In the Third Year, time is divided between Chemistry and Engineering, and Chemical Engineering topics are introduced. The Fourth Year is devoted mostly to Chemistry and Chemical Engineering, including a course in unit operations.

Students must attend two Summer Schools, one in Elementary Quantitative Analysis at the end of the Second Year, and the other in Advanced Quantitative Analysis at the end of the Third Year.

FIRST YEAR

As in other Engineering Departments, except that students do not take the Summer School in Surveying Field Work.

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Problems	80A	..	1	..	2
Engineering Reports	136	1	1	..	..
Calculus	198	2	4	..	..
Materials of Engineering	81	1	1	..	..
Mechanics	83	2	2	2	2
Physics and Laboratory	315-316	2	2	3	3
Elem. Organic Chem. and Laboratory	56-57	2	2	3	3
Inorganic Qualitative Analysis and Laboratory	53	2	..	6	..
Inorganic Quantitative Analysis and Laboratory	54	..	2	..	9
*Inorganic Quantitative Analysis Laboratory	55	..	..	..	..
Summer Essay or Reading	132	..	..	..	..
Total hours		12	15	14	19

*Summer School extends over a period of four weeks at the end of the second year course.

All students of the Second Year who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, are required to repeat the Second Year.

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
General Elem. Metallurgy	262	1	1	..	..
Mechanical Eng. and Lab	226, 228	2	2	3	3
Thermodynamics	229	2	2	..	..
Engineering Reports (optional)	137	1	1	..	..
Mineralogy	142A	2	2	..	..
Determinative Mineralogy	143A	..	..	3	..
Strength of Materials and Lab	87-88	2	2	..	3
Carbohydrates, Fats, etc	58	..	2	..	..
Advanced Organic Chem. & Lab	65	2	2	9	9
Adv. Physical Chemistry	66	3	3	..	..
Elem. Chemical Engineering	63	2	2	..	..
*Advanced Quantitative Analysis and Lab	61	..	..	..	..
Summer Essay or Reading	133	..	..	..	..
Total hours		16 or 17	20 or 21	15	15

*Summer School extends over a period of four weeks at the end of the third year course.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Advanced Inorganic Chem.	72	2	2	..	..
Electrochemistry	70	1	1	..	..
Colloid Chemistry	75	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Elem. of Electrical Eng. & Lab.	111-112	2	2	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
History of Chemistry (optional)	74	1	1	..	..
Inorganic Chem. Technology	68	2	..	..	..
Organic Chemical Technology	69	..	2	..	..
Physical Chemistry Lab.	66A	..	..	9	9
Chemical Engineering	77	5	5	..	..
Chem. Eng. Lab.	78	..	..	6	6
Summer Essay	134	..	..	..	..
Thermodynamics	76	2	2	..	..
Total hours		18 or 21	16 or 18	18	18

III. CIVIL ENGINEERING

The courses of study are designed to emphasize the fundamental principles of mechanics, strength of materials, design of structures, and hydraulics, at the same time affording an opportunity of applying these principles to practical problems ranging widely over the field of civil engineering. A sound foundation is laid for future specialization. The outlook of the student is broadened by courses in Mechanical and in Electrical Engineering. In the designing courses special attention is given to the interpretation and critical discussion of specifications and to the economic principles involved. Students are recommended to obtain practical experience during the summer vacations, and are especially recommended to spend at least one vacation in a drafting office.

First and Second Years

As in other Engineering Courses (see pages 419 and 420), with additional Summer School for students entering Third Year (see page 431).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	3
Foundations	89	1	1	2	2
Geology, General	141	2	2	..	..
Engineering Reports (optional)	137	1	1	3	..
Hydraulics and Lab.	97-98	2	..	3	..
*Map Projections (alt.)	351	..	..	3	3
Mech. Eng. and Lab.	226, 228	2	2	..	..
Mechanics	86	1	1	6	3
Railway and Highway Eng.	92	2	1	..	..
*Sanitary Science (alt.)	82	1	..	..	3
Strength of Matls. and Lab.	87-88	2	2	..	3
Elem. Structural Design	90	..	1	..	..
Surveying	353	2	2	..	..
Surveying Field Work	354	..	..	..	..
Summer Reading or Essay	133	..	..	..	..
Total hours		14 or 16	14 or 15	14 or 17	17

*Map Projections (351) is alternative with Sanitary Science (82).

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Elements of Elec. Eng. & Lab	111-112	2	2	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Geodesy and Lab	359-360	2	..	3	..
†Geodetic Field Work	361	..	..	..	..
Strength of Materials	95	1	2	3	..
Theory of Structures	94	1	2	3	6
Bridge Design	96	2	2	6	6
Hydraulic Machines	99	..	2	..	..
Municipal Engineering	101	2	2	..	3
Waste Disposal	103	1	..	..	..
Summer Essay	134	..	..	..	..
Total hours		15 or 16	13 or 14	18	18

†See page 431.

IV. ELECTRICAL ENGINEERING

The Third Year of the Electrical Engineering course provides the student with a broad engineering training. Courses in mechanical engineering, thermodynamics, and strength of materials occupy a large place in the curriculum, although the greatest emphasis is placed on the study of the principles of Electrical Engineering.

The course in Electrical Engineering theory includes a study of electro-magnetism and of the electric circuit, followed by an analysis of the theory and characteristics of direct current machinery. A study is made of alternating current flow in single-phase and polyphase circuits. This training is applied in the laboratory and in the solution of problems. Courses in differential equations and in molecular physics prepare the student for the electrical circuit theory, and electrical communication courses of the Fourth Year.

The Fourth Year is devoted almost entirely to electrical engineering studies.

Technical courses cover the generation, transmission and distribution of electric power; direct and alternating current phenomena; electrical machinery; electric lighting; various systems of power distribution and transmission; central station design; electrical traction systems; hydro-electric power development; electro-chemistry; electrical measurements; communication engineering, etc.

Visits are made to electrical works and power plants.

First and Second Years

As in other Engineering Courses. (See pages 419 and 420).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Differential Equations	201	3	..	..	..
Economics	171	..	2	..	..
Electrical Engineering	113	4	4	..	..
Electrical Eng. Lab	114	..	..	12	12
Engineering Reports (optional)	137	1	1	..	..
Machine Design	225	2	2	..	..
Mech. Eng. and Lab	223, 226	2	2	3	3
Mechanics	86	1	1	..	..
Thermodynamics	229	2	2	..	..
Strength of Mats. and Lab	87-88	2	2	..	3
Physics	318	..	2	..	..
Summer Reading or Essay	133	..	..	..	..
Total hours		16 or 17	17 or 18	15	18

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Electrical Design & Problems	122	1	1	3	6
Electrical Engineering	117	4	4	..	..
Electrical Measurements and Lab	124	2	..	3	3
Electrical Engineering Lab	118	..	..	6	9
Thermionic Tube Theory and Applications	125	2	..	3	..
Communication Eng. (Wire)	126	..	2	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Applications of Electricity	123	..	3	..	..
Elec. Light & Power Dis	120	2	..	..	..
Hydraulics & Lab	97-98	2	..	3	..
Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Summer Essay	134	..	..	..	..
and one of:—					
(1) Electric Traction	121	..	2	..	..
(2) Hydraulic Machines	99	..	2	..	..
(3) Machine Design	243	..	2	..	..
(4) Electro-Metallurgy	275	3	..	..	..
(5) Communication Eng. (Radio)	127	..	2	..	..
Total hours		18 or 21	13 or 14	18	18

V. MECHANICAL ENGINEERING

Undergraduates entering the Third Year elect one of two courses: Mechanics of Machines and Thermodynamics, or Accounting and Industrial Engineering. If special preparation in aeronautics is desired in

addition to the first option (Mech. of Machines), Calculus is taken in the Third Year and Strength of Materials in the Fourth Year, if the timetable will permit.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with:—

(a) The engineering of production, including industrial engineering; (b) steam engineering; (c) internal combustion engines; (d) power plant engineering; (e) heating and ventilation; (f) aeronautics and aerodynamics.

Instruction is given during the Third and Fourth Years in mechanical engineering applied to power installation and prime movers. This work is supplementary to thermodynamics, mechanics of machines and machine design, and leads to power plant design, industrial plant design and works organization.

Students take work in electrical engineering during the Third Year.

Workshop practice instruction is given in the Third and Fourth Years to prepare for that practical experience which every mechanical engineer must obtain for himself.

The course in thermodynamics deals with the theory of heat engines, including graphical and experimental work.

Arrangements are made for occasional visits to power plants and factories of importance.

First and Second Years

As in other Engineering Courses (see pages 419 and 420), with additional Summer School for students entering Third Year. (See page 431).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Elements of Elect. Eng. and Lab.	111-112	2	2	3	3
Engineering Reports (optional)	137	1	1	..	..
Industrial Engineering	237	2	..	..	..
Machine Design	225	2	2	..	..
Mechanical Drawing	231	..	..	3	3
Mechanical Eng. and Lab.	227-228	3	3	3	3
Mechanics	86	1	1	..	..
Physical Metallurgy	266	1	..	2	..
Shopwork	236	..	..	3	3
Strength of Matls. and Lab.	87-88	2	2	..	3
Elem. Structural Design	90	..	1	..	3
Thermodynamics	229	2	2	..	..
Summer School	233	..	..	..	..
Summer Reading or Essay	133	..	..	..	..
Accounting	238	1	1	2	2
or					
Mechanics of Machines	224	2	2	1	1
**Differential Equations (optional)	201	2	..	..	..
Total hours		15 or 20	16 or 18	15 or 16	19 or 20

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Designing	241	..	..	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Experimental Eng.	257	1	1	..	..
Heat. and Vent. of Buildings	247	1	1	..	..
Hydraulics and Lab.	97-98	2	..	3	..
Hydraulic Machines	99	..	2	..	..
Machine Design	242	2	2	..	..
Power Plant Design	244	1	1	3	3
Shopwork	252	..	..	3	3
Summer Essay	134	..	..	..	..
and					
Industrial Administration	254	..	1	..	3
Industrial Engineering	253	2	2	3	3
Industrial Relations	258	2	..	..	..
Mech. Eng. Lab.	249A	..	..	6	6
or					
Thermodynamics	251	2	2	..	..
Industrial Administration	254	..	1	..	3
Industrial Relations	258	2	..	..	..
Mech. Eng. Lab.	249	..	..	9	9
or					
Mech. Eng. Lab.	249	..	..	9	9
*Mech. of Mach.	240	2	2	1	1
Thermodynamics	251	2	2	..	..
**Strength of Materials (optional)	95A	..	2	..	..
Total hours		13 or 15	12 or 14	21 or 22	19 or 21

*Prerequisite Mechanics of Machines 224.

**Students intending to specialize later in aerodynamics take optional courses in Differential Equations (201) and Strength of Materials (95A).

VI. METALLURGICAL ENGINEERING

The course of instruction provides training in the chemical, physical and engineering subjects that form a basis for metallurgical engineering. In the later years, the various branches of theoretical and practical metallurgy are studied, together with the allied subjects of geology, mineralogy, assaying, mineral-dressing and mining engineering.

The course is designed for students who expect to be engaged in the smelting or refining of metals, the production of iron or steel, the melting and casting of metals and alloys, or in engineering work in which the physical properties and heat-treatment of metals and alloys are of fundamental importance.

In the Third Year instruction is given in economics, chemistry, assaying, mineralogy, mining, mineral-dressing, metallurgy, and mechanical, electrical and structural engineering.

A Metallurgical Field School is held after the April examinations of the Third Year. This school visits metallurgical plants and studies the design and operation of each.

Students are expected to work in a metallurgical plant during the summer before entering the Fourth Year, and must have had experience in metallurgical works before graduation. (See page 431).

In the Fourth Year instruction is given in chemistry, engineering law, economics, hydraulics, metallurgy, electrometallurgy, metallography, metallurgical designing and mineral-dressing.

Laboratory accommodation is provided for graduate students who wish to do advanced work in metallurgy for the M.Sc. or M.Eng. degree.

Please refer to page 409 for regulations regarding physical examination.

First Year

As in other Engineering Courses. (See page 419).

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Problems	80A	..	1	..	2
Engineering Reports	136	1	1	..	..
Mapping	349	..	..	..	3
Materials of Engineering	81	1	1	..	..
Calculus	198	2	4	..	..
Mechanical Drawing	344	..	..	3	..
Mechanics	83	2	2	2	2
Physics and Laboratory	315-316	2	2	3	3
Inorganic Qualitative Analysis and Laboratory	53	2	..	6	..
Geology, General	141	2	2	2	2
Surveying	346	2	2	..	..
*Surveying Field Work	347	..	..	..	..
Summer Essay or Reading	133	..	..	..	..
Total hours		14	15	16	12

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April (about April 27th) see pages 431 and 461.) In the case of students entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 431.)

All students of the Second Year taking the course for the first time, who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, are required to repeat the Second Year.

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Elem. Elec. Eng. and Lab.	111-112	2	2	3	3
Engineering Reports (optional)	137	1	1	..	..
Fire Assaying	263-264	1	..	4	..
Geology, General	141	2	2	2	2
Inorg. Quant. Analy. and Lab.	71	1	..	8	..
Mech. Eng. and Lab.	226, 228	2	2	3	3
Mineralogy	142	2	2	..	..
Mineralogy, Determinative	143	..	..	..	6
Mining Engineering	291	2	..	..	..
Mineral-Dressing	292, 295	2	2	..	..
Strength of Matls. and Lab.	87-88	2	2	..	3
Elem. Structural Design	90	..	1	..	3
Summer Reading or Essay	133	..	..	..	..
Total hours		16 or 17	15 or 16	18	20

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Advanced Physical Chemistry	66	3	3	..	..
Electro-Metallurgy	275	3	..	..	..
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
General Metallurgy	271	2	2	..	..
Hydraulics and Lab.	100	1	..	1½	..
Inorganic Chem. Technology	68	2	..	..	..
Metallurgical Lab.	273	..	..	3	..
Metallurgy, Advanced	272	..	4	..	..
Metallurgical Thesis	274	..	..	3	10
Metallurgical Colloquium	277	..	1	..	..
Metallurgical Problems and Design	278	..	2	3	3
Metallurgical Analysis	279	..	..	3	..
Metallography and Lab.	280-281	2	1	..	3
Mineral Dressing and Lab.	300, 305	2	1	3	..
*Metallurgical Field School	268	..	..	..	..
Summer Essay	134	..	..	..	..
Total hours		18 or 20	15 or 16	16½	16

*Metallurgical Field School (268) is taken at the end of the Third Year. See page 456.

VII. MINING ENGINEERING

The Third Year is largely devoted to applied mechanics, structural design, electrical engineering, mechanical engineering, and surveying, but courses of special interest to Mining Engineers are introduced in mineral-dressing, elementary mining and metallurgy and mineralogy.

In the Fourth Year instruction is given in mining, mineral-dressing, economic geology and metallurgy, including nearly three full days per week in laboratories and drafting room. In the second term each student prepares a thesis on an experimental investigation, and works on problems in mine design.

A Field School in mining, mineral-dressing and geology is held between the Third and Fourth Years, beginning immediately after the close of the April examinations. Students are taken on a trip to some important mining district where mines and plants are studied.

Facilities are available for graduate students who wish to do advanced work in mining or mineral-dressing, and the Department possesses three Research Fellowships open to graduates who show ability. (See Scholarships Announcement.)

Please refer to page 409 for regulations regarding physical examination.

First and Second Years

First Year, same as other Engineering Courses (see page 419), and Second Year, same as course in Metallurgical Engineering (see page 427), with additonal Summer Schools for students, entering Third Year (see page 431).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Engineering Reports (optional)	137	1	1	..	..
Geology, General	141	2	2	2	2
Inorg. Quant. Anal. and Lab	71	1	..	8	..
Mech. Eng. and Lab	226, 228	2	2	2	3
Gen. Element. Metall	261	1	1	..	..
Mineralogy	142	2	2	..	..
Mineralogy, Determinative	143	..	..	..	6
Mining Engineering	291	2	..	..	..
Mineral-Dressing	292, 295	2	2	..	..
Strength of Matls. and Lab	87-88	2	2	..	3
Elem. Structural Design	90	..	1	..	3
Surveying	352	1	1	..	..
†Surveying Field Work	354	..	..	..	..
Elect. Engineering and Lab	111-112	2	2	3	3
Summer Reading or Essay	133	..	..	..	..
Total hours		17 or 18	17 or 18	15	20

†See page 461.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Mine Design	298	..	..	..	6
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Fire Assaying and Lab	263-264	1	..	4	..
Geology of Canada	149	1	..	..	..
Hydraulics and Lab	100	1	..	1½	..
Metallurgy, General	271	2	2	..	..
Metallurgical Lab	284	..	..	..	3
Metallurgical Calc	283	..	2	..	..
Mining Engineering	297	1	3	..	..
Mining Colloquium	301	..	1	..	..
Practical and Field Geology	147	1	..	3	..
Ore Deposits	148	..	4	..	..
Mineral-Dressing	300	2	1	..	..
Metal. Analysis	279	..	..	3	..
Mineral-Dress., Lab. and Thesis	307	..	..	3	7
Petrography and Lab	146	1	..	3	3
Applied Geophysics	320	2	..	..	..
Mining Field School	294	..	..	..	..
Mine Mapping	293	..	..	1½	..
Summer Essay	134	..	..	..	..
Total hours		15 or 17	14 or 15	19	19

NOTE.—Surveying Field Work, between the Second and Third Years. See page 431. Mining Field School at end of Third Year. See page 455.

SUMMER SCHOOLS

Undergraduates are required to attend Summer Schools as specified below. These are held immediately after the April sessional examinations, and the work is set forth in detail under the subject numbers referred to.

A special fee of $35.00 is payable in advance. (See note under fees, page 411).

Except as noted, classes are expected to begin on or about April 27th and close about May 23rd.

COURSE	Students entering Second Year		Students entering Third Year		Students entering Fourth Year (and Fifth Year Architecture)	
	Subject No.	Page	Subject No.	Page	Subject No.	Page
Architecture	347	460	† 26	..	† 26	..
Chemical Engineering	...	..	55	441	61	441
Civil Engineering	347	460	354	460	351	460
Elect. Engineering	347	460	...	..	...	..
Mechanical Engineering	347	460	*233	451	...	..
Metallurgical Engineering	347	..	...	..	268	..
Mining Engineering	347	460	354	460	294	455

*This school will commence on September 3rd, extend over a period of four weeks and be held with the Special Summer Schools. See pars. (a), (b) and (c) below.

†A Sketching School is taken by students entering the third, fourth and fifth years in Architecture. It will commence on September 16th, and extend over a period of two weeks.

NOTE—SPECIAL SUMMER SCHOOLS

As it is seldom practicable for students admitted to advanced standing in McGill University from other colleges to attend the May Summer School preceding the work of the year to which they are admitted, the following arrangements have been made for such students, but it must be understood that, except as noted in the table above, they apply only to students who have not previously been in attendance in the Faculty of Engineering.

(a) Students entering the Second Year, except in Chemical Engineering, are required to attend a special Summer School in Surveying which extends from September 12th to 25th, inclusive, preceding the work of the Session. Additional work may be required in the following year, if necessary, to cover the course. (See page 461).

(b) Students entering the Third Year of the course in Mechanical Engineering will be required to attend a Summer School in Mechanical Drawing and Machine Shop Work extending over a period of four weeks, commencing September 3rd.

(c) Students entering the Third Year in the courses in Civil and in Mining Engineering and the Fourth Year in Civil Engineering are required to attend a Special Summer School in Surveying from September 12th to 25th, inclusive, and in these courses further work in Surveying, to be specified by the Chairman of the Department, is required for a portion of the month of May following.

(d) Students entering the Third Year or any subsequent year in the course in Architecture must submit evidence satisfactory to the Chairman of the Department that they have done work equivalent to that of the regular scheduled Summer Schools.

(e) Students entering the Fourth Year in the courses in Mining and Metallurgical Engineering are required to submit evidence that they have had practical experience in mining and metallurgical work at least equivalent in extent to the work done in the regular Summer Schools in these courses, and should by correspondence in the preceding spring secure the approval of the Chairman of the Department concerned of the work which they propose to offer in place of the regular summer work.

SUMMER WORK, SUMMER ESSAYS AND SUMMER READING

Students in Engineering are required to submit to the Faculty evidence of having had at least six months of experience in practical engineering work before receiving their degrees (see page 415). Evidence of such employment must be submitted on forms obtainable at the Dean's Office, to be signed by the employer, and handed in at the office not later than 5 p.m., October 24th, 1940.

A similar regulation applies to students in Architecture, who must have had at least eight months of practical experience before receiving their degrees. This experience must include work in an architect's office.

GENERAL REQUIREMENTS

Essays are regarded as a very important part of the curriculum and a high standard is exacted. They are judged on their subject matter, literary style and the evidence they show of thoughtful preparation.

The most acceptable subject for an essay is a critical description of the work on which the student is engaged during the summer, but a description of any engineering, scientific or industrial work with which he is familiar will be accepted. Students who secure summer engagements in engineering work should take advantage of every opportunity to gather material suitable for an essay.

No essay compiled from books alone will be accepted unless the student has obtained in advance the written approval of the Chairman of his Department. Information obtained from books and other sources may, however, be used or even quoted verbatim, provided full acknowledgment is made and all quotations enclosed in quotation marks. Similarly, drawings, blue prints, etc., may be included in the essay, provided full acknowledgment is made.

The student should be particularly careful to make acknowledgment of information or drawings regarding matters which have not come within his personal experience, by means of a letter attached to the essay.

Essays should normally be from 2,000 to 5,000 words in length. They should be illustrated by drawings, sketches, and, when desirable, by photographs, specimens, etc., and MUST BE TYPEWRITTEN on paper of substantial quality and 8½ x 11 inches in size.

Essays, with the exception of those which require consideration by the Committee on English because of literary defects, or those which are considered eligible for Undergraduate Society prizes, will be returned to students on or before December 1st, Students are encouraged to submit their essays to the Engineering Institute of Canada or to the Canadian Institute of Mining and Metallurgy, in competition for students' prizes offered by these Institutes.

All summer essays must be handed in at the Dean's Office not later than 5 p.m., October 24th, 1940.

Examinations in Summer Reading will be held on or about the opening day of the session. The number of marks assigned to the reading course and to the essay is the same.

STUDENTS IN ARCHITECTURE

During each summer vacation all students are required either to work for five weeks in the office of an architect or contractor, or to prepare thirty-five reasonably large freehand sketches in any desired medium, or carry out a programme of study approved by a professor of the School.

In addition, students entering the various years are required to fulfil the following requirements:—

Second Year

Pass an examination on J. H. Breasted, The Conquest of Civilization (Harpers).

Third and Fourth Years

Pass an examination on the following books, or submit an essay on a subject approved by the Chairman of the Department:— Quennell, A History of Everyday Things in England, Part I. (Batsford), Rev. D. H. S. Cranage, The Home of the Monk, (Cambridge).

Fifth Year

Pass an examination on the following books, or submit an essay on a subject approved by the Chairman of the Department:—

Lewis Mumford, Sticks and Stones (Norton); York and Penn, A Key to Modern Architecture (Blackie).

STUDENTS IN ENGINEERING

Second Year

132. Students entering the Second Year must either pass an examination on not fewer than four of the following books, or submit an essay:—

Second Year Summer Reading

James Truslow Adams, The Education of Henry Adams, (Modern Library).
B. H. L. Hart, Foch, (Penguin Library).
D. Merejkowski, Leonardo da Vinci, (Modern Library).
Martin Lindsay, Sledge, (Penguin Library).
J. J. Abraham, The Surgeon's Log, (Penguin Library).
W. H. Hudson, The Purple Land, (Modern Library).
A. E. Newton, Amenities of Book Collecting, (Modern Library).
Stanley Baldwin, On England, (Penguin Library).
M. K. Broster, Sir Isumbras at the Ford, (Penguin Library).
Ethel Mannin, Children of the Earth, (Penguin Library).
Ralph Straus, The Unseemly Adventure, (Penguin Library).
H. W. Van Loon, Ancient Man, (Modern Library).
Sir James Jeans, The Mysterious Universe, (Penguin Library).
Lionel Hogben, Science for the Citizen, (Alfred A. Knopf).
Anthology of Modern Verse, (Modern Library).
A. A. Milne, Four Plays, (Penguin Library).
Eugene O'Neill, The Moon of the Caribbees, (Modern Library).
G. T. Garratt, Mussolini's Roman Empire, (Penguin Library).
Harold Nicholson, Why Britain is at War, (Penguin Library).
H. Lichtenberger, The Third Reich, (Gladstone Press).

The essay, which should be approximately 2,000 words in length, must be illustrated and must conform to the requirements for essays stated above.

Students who elect to write an essay, but who are not engaged during the summer in engineering, scientific or industrial work that would be a suitable subject for an essay, may write on one of the following subjects: (1) General Educational Value of Engineering Training; (2) The Place of Athletics in the University; (3) College Journalism; (4) Summer Schools.

Third Year

133. Students entering the Third Year must pass an examination on the following book, or submit an essay, preferably on engineering work in which they have been engaged:—Cheyney, An Introduction to the Social and Industrial History of England, revised edition, (Macmillan).

Essays must conform to the requirements stated above except that they may be somewhat shorter, but not less than 2,000 words in length.

Students who elect to write an essay, but are not engaged during the summer in suitable engineering, scientific or industrial work are advised themselves to choose a subject, in consultation with the Chairman of their Department, or they may write on one of the following:—

Chemical Engineering.—(1) The Refining of Petroleum; (2) The Solvay Process for Soda Manufacturing; (3) Manufacture of Contact Sulphuric Acid.

Civil Engineering.—(1) Historical Development of Trussed Frameworks; (2) Historical Development of Reinforced Concrete; (3) Ancient and Modern Water Supplies.

Electrical Engineering.—The Application of Electric Power to Industrial Establishments.

Mechanical Engineering.—(1) Powdered Fuel for Power Production; (2) Pulp and Paper Manufacture; (3) Shop Management.

Metallurgical Engineering.—(1) Roasting Sulphide Concentrates; (2) Reverberatory Copper Smelting; (3) Heat Treatment of Steel.

Mining Engineering.—(1) Explosives Used in Mining; (2) Hoisting from Mines; (3) Mucking and Transportation in Mines; (4) The Cyanide Process for Extraction of Minerals from Ores.

Fourth Year

134. Students entering the Fourth Year are required to submit an essay, preferably on engineering work in which they have been engaged. Students who are not engaged in suitable work may write on one of the following subjects, or preferably on an engineering subject approved by the Chairman of their Department.

Chemical Engineering.—(1) Nitrogen Fixation Industries; (2) Kraft Pulp; or Sulphite Pulp; or Viscose Rayon; (3) Economic Factors in Chemical Industries; (4) Electrolytic Caustic and Chlorine.

Civil Engineering.—(1) Welding of Structural Steel; (2) High-Early-Strength Concrete; (3) Aerial Surveying; (4) Small-Town Sewage Disposal Plants.

Electrical Engineering.—(1) Applications of Electricity to any Particular Branch of Industry, or to Industry in General; (2) Applications of Thermionic Tubes to Electrical Communication and to Industry; (3) Electrification of Railways; (4) The Insulation of Underground Cables or of Overhead Lines; (5) The Magnetic Properties of Iron and its Alloys.

Mechanical Engineering.—(1) Power Costs; (2) Central Station Heating; (3) Methods of Increasing Production in Manufacturing; (4) Diesel-driven Motor Buses.

Metallurgical Engineering.—(1) The Treatment, Uses and Disposal of Gases from Metallurgical Furnaces; (2) The Economic Use of Electric Power in Metallurgical Furnaces; (3) Corrosion-resisting Alloy Steels; (4) Electrometallurgical Industries.

Mining Engineering.—(1) Prospecting and Exploration of Mineral Deposits; (2) Mine Drainage; (3) The Flotation Process for Ore Concentration; (4) Compressed Air and its Application to Mining; (5) Mineral Production and its Effect on Industrial Development.

Essays must conform in all respects to the requirements stated on page 431.

Examinations in Summer Reading will be held on or about the opening day of the session. The number of marks assigned to the reading course and to the essay is the same.

SUBJECTS OF INSTRUCTION

The following courses in Architecture and Engineering are subject to modification during the year, as the Advisory Committee on Architecture or the Faculty may deem advisable.

SCHOOL OF ARCHITECTURE

Acting Director.....PHILIP J. TURNER
Associate Professor.....G. J. DODD, of the Dept. of Civil Engineering.
Assistant Professors.....FRANK P. CHAMBERS
.....
Special Lecturer.....P. ROY WILSON
Sessional Lecturer.....JOHN BLAND
Advisory Committee:—(See page 405)

A.—DESIGN

The course in Design is divided into three classes (A, B and C), intended for the Third, Fourth and Fifth Years respectively. Advanced or backward students are allotted to design classes to suit their individual requirements, irrespective of their standing in other subjects; good standing in Class C must be obtained prior to receiving the degree.

1. CLASS A. (P. 9, 19, 21, 29). Simple problems in composition of a monumental nature. The design of domestic buildings.

2. CLASS B. (P. 1, 22). The design of public building with details of construction.

3. CLASS C. (P. 2). Problems involving the plan, structure and lay-out of complex buildings and groups of buildings. The diploma design for graduation is done in the second term.

B.—AESTHETIC

4. THE ELEMENTS OF ARCHITECTURE.—24 lectures. Mr. Bland.

Text-books:—C. Normand, Parallel of the Orders (Tiranti); H. McGoodwin, Architectural Shades and Shadows, (Bates & Guild).

5. HISTORY OF ART. 24 lectures—Professor Chambers.

6. THEORY OF DESIGN. 24 lectures—Professor Chambers.

Text-books:—Croce, Aesthetic (Macmillan); Nobbs, Design (Oxford Press); Chambers, The History of Taste (Columbia University Press)

P—Prerequisite.

7. Theory of Planning. 24 lectures—.....

Prospect, aspect, accommodation, circulation, fenestration, group planning, town planning.

Text-books:—Nobbs, P. E., Design (Oxford Press); Hegemann and Peet, Civic Art. (Architectural Book Publishing Co.).

10, 11, 12 and 13. Ornament and Decoration.
(48 lectures and 48 draughting periods extending through two years.)

10. Decorative Heraldry.....First Term.
(Not given in 1940-41)

Text-books:—Eve, Decorative Heraldry, (Harcourt); Grant, The Manual of Heraldry (Grant); Hope, Heraldry for Craftsmen (Macmillan), Fox Davies, The Art of Heraldry, (Jacks).

11. Ornament in Form.....Second Term.
(Not given in 1940-41)

Text-books:—Miller, Plastering, Plain and Decorative, (Batsford); Bankart, The Art of the Plasterer; (Batsford); Prior, Mediaeval Figure Sculpture in England (Cambridge Univ. Press); Gardner, Handbook of Greek Sculpture (Macmillan).

12. Metal Work.—Mr. Wilson.....First Term.

Text-books:—Murphy, English and Scottish Wrought Iron Work, (Scribner); Starkie Gardner, Ironwork, (Victoria and Albert Museum); Lethaby, Leadwork, (Macmillan).

13. Color Decoration.—Mr. Wilson.....Second Term.

Text-books:—Merson, Vitraux, (Maison Quant), Day, Windows (Batsford).

C.—History

14. Ancient and Classical Architecture. 48 lectures—Professor Chambers.

Text-books:—Banister Fletcher, History of Architecture, (Batsford); Anderson and Spiers, Architecture of Ancient Greece, (Batsford); Anderson and Spiers, Architecture of Ancient Rome (Batsford).

15. Mediaeval Architecture. 48 lectures....Professor Chambers.
(Given in 1940-41).

Text-books:—Power, Mediæval Architecture (Talbot); Faure, History of Art (Harpers); Bond, Gothic Architecture in England (Batsford); Prior, History of Gothic Art in England (Bell).

16. Renaissance Architecture. 48 lectures.—..... (Not given in 1940-41).

Text-books:—Anderson, Italian Renaissance Architecture. (Batsford); Ward, French Renaissance Architecture (Batsford); Blomfield, Short History of Renaissance Architecture in England (Bell); Gotch, Architecture of the Renaissance in England (Batsford).

17. Modern Architecture. 48 lectures.....Mr. Bland.

Text-books:—Clark, The Gothic Revival (Constable); Richardson. Monumental Classic Architecture in Great Britain (Batsford).

D.—Science

Mathematics. Mathematics 1 of the Faculty of Arts and Science. including Algebra, Geometry and Trigonometry. Mechanics 194 is taken in Engineering, also Engineering Problems 80. (See page 443).

Physics and Laboratory. Arts and Science 1. 72 lectures and 48 laboratory periods.....Professor Keys.

346. Surveying. (P. 191 or Arts and Science 1), 48 lectures. Professor Kelly.

347. Surveying Fieldwork. 4 weeks' field school.

348. Mapping. 24 drafting periods.....Professor Kelly.

23. Hygiene of Buildings. 24 lectures in first term—Professor Macdonald.

24. Heating and Ventilation of Buildings. 12 lectures and one graphical problem, second term.—Professor Patten.

E.—Construction

18. Building Construction I. 48 lectures and 48 drafting periods.

Text-books:—Frame Construction Details (Nat. Lumber Manf. Assn.); Manual of Face Brick Construction (American Face Brick Assn.).

19. Building Construction II. (P. 18). 48 lectures and 48 drafting periods

Text-books:—Knobloch, Good Practice in Construction (Batsford); Voss and Henry, Architectural Construction (Wiley); Jaggard and Drury, Architectural Building Construction, Vol. 1 (Cambridge Univ. Press); Hollman, Wood Construction (McGraw-Hill); Gay and Archer. Materials and Methods of Architectural Construction (Wiley).

20. Building Materials. 12 lectures.....Professor Turner.

21. Architectural Engineering I. (P. 194) 48 lectures and 48 drafting periods.....Professor Dodd.

P—Prerequisite.

22. ARCHITECTURAL ENGINEERING II. (P. 21, 194). 48 lectures and 48 drafting periods.....Professor Dodd.

Text-books:—Hauf, Design of Steel Buildings (Wiley); Howe, Retaining Walls for Earth (Wiley); Turneaure and Maurer, Principles of Reinforced Concrete Construction (Wiley); Useful Data (Kalman Steel Company); Handbook of Reinforced Concrete Building Design (American Concrete Institute); Draffin, Strength of Materials (Wiley); Malcolm, Graphic Statics (Clarke); Steel Construction (American Institute of Steel Construction).

F.—ARCHITECTURAL PRACTICE

25. PROFESSIONAL PRACTICE. 24 lectures and 24 drafting periods.
Professor Turner.

Text-books:—Handbook of Architectural Practice (A.I.A.); N.Y. Building Congress Standard Specifications; Goldsmith, Architects' Specifications (Wiley); Architects' Law Manual, (Pencil Points Press); P.Q.A.A., R.A.I.C. and A.I.A. Standard Documents.

G.—DRAWING

8. ARCHITECTURAL DRAWING I. 14 drafting periods.
Professor Chambers.

9. ARCHITECTURAL DRAWING II. (P. 8). 8 drafting periods.
Mr. Bland.

27, 28, 29 (P. 27, 28). FREEHAND DRAWING. Two periods a week during the first three years.....Mr. Wilson

30. MODELLING. Two periods a week for the first term of the fifth year.—Professor Chambers.

31, 32, 33, 34. An essay prepared during the session, on an historical or a theoretical subject, is required each year from all students except those of the First Year.

35, 36, 37, 38. SUMMER WORK.

During the vacations following the close of the First, Second, Third and Fourth Years, students are required to read and to be prepared to pass an examination on a selected architectural work. Every student must, before he receives his degree, have had at least eight months' experience in an architect's or contractor's office satisfactory to the Faculty. The regulations of the Royal Institute of British Architects require that a candidate for the special examination shall have had at least twelve months' experience in an architect's office. Graduates will not be admitted to this examination until they have fulfilled the requirement.

P—Prerequisite.

Text books set for summer reading include the following:—Breasted, Conquest of Civilization (Harper); Quennell, A History of Everyday Things in England, Part I (Batsford); Villehardouin and Joinville, Memoirs of the Crusades (Dent); Ruskin, Seven Lamps of Architecture (Dent); A. Clutton Brock, William Morris—His Work and Influence (Williams & Norgate); Yorke and Penn, A Key to Modern Architecture (Blackie); Mumford, Sticks and Stones (Norton); Cranage, The Home of the Monk. (Cambridge Univ. Press.)

A summer school in surveying is taken in the four weeks following the sessional examinations of the First Year.

A sketching school will be held in the two weeks preceding the commencement of the session.

For summer reading, see page 431.

DEPARTMENT OF CHEMISTRY

Professors.....{O. Maass.
Harold Hibbert
W. H. Hatcher

Associate Professors.....{J. B. Phillips
J. H. Mennie
W. H. Barnes

Assistant Professors.....{C. A. Winkler
R. V. V. Nicholls

Lecturer.....J. H. Ross

Sessional Lecturer.....A. S. Ross

and demonstrators and graduate assistants.

First Year Lectures and Laboratory.

51. Elementary Physical Chemistry and Laboratory. Two lectures and one one-hour problem period per week....Professor Maass.

Text-books:—Maass & Steacie, Introduction to the Principles of Physical Chemistry, Second Edition (Wiley).

Second Year Lectures and Laboratory.

53. Inorganic Qualitative Analysis and Laboratory. (Arts and Science 3a). (P. 51). Two lectures and six hours laboratory per week, first term.....Professor Mennie.

Text-book:—Curtman, Qualitative Chemical Analysis (Macmillan).

54. Inorganic Quantitative Analysis and Laboratory. (Arts and Science 3b). (P. 51). Two lectures and nine hours laboratory per week, second term.....Professor Mennie.

P—Prerequisite.

55. Inorganic Quantitative Analysis Laboratory. Four weeks summer school. (See page 431).....Professor Mennie.

56. Organic Chemistry. (Arts and Science 2.) (C. 57.) Two lectures per week.....Professor Hatcher.

Text-book:—Lucas, Organic Chemistry (American Book Co.).

57. Organic Chemistry Laboratory. (Arts and Science 2.) (C. 56.) One period per week.....Professor Hatcher and Dr. Nicholls.

Third Year Lectures and Laboratory.

58. Carbohydrates, Fats, Resins. (P. 51, 56). Two lectures per week, second term.....Professor Hatcher and Dr. Nicholls.

61. Advanced Quantitative Analysis and Laboratory. (P. 54 and 55). Four weeks summer school. (See page 431).
Professor Mennie.

*63. Elementary Chemical Engineering. (P. 51). Two lectures per week.....Professor Phillips.

*65. Advanced Organic Chemistry and Laboratory. (Arts and Science 5). (P. 56). Two lectures and nine hours laboratory per week.
Professor.....

*66. Advanced Physical Chemistry. (P. 51). (Arts and Science 7, 12). Three lectures per week.....Professor Maass.

Text-books:—Nernst, Theoretical Chemistry (Macmillan); Taylor, Treatise on Physical Chemistry (Van Nostrand).

71. Inorganic Quantitative Analysis and Laboratory. (P. 53). One lecture and eight hours laboratory per week, first term.
Professor Mennie.

This course is available for students in the Department of Geology in the Faculty of Arts and Science.

Fourth Year Lectures and Laboratory.

*66A. Physical and Colloid Chemistry Laboratory. (Arts and Science 7L). Nine hours laboratory per week..Professors Maass and Winkler.

Text-books:—Daniels, Matthews and Williams, Experimental Physical Chemistry (McGraw-Hill).

*68. Inorganic Chemical Technology. Two lectures per week, first term.....Professor Phillips.

---

*Courses marked with a star are open to graduates as well as undergraduates.

P—Prerequisite. C—Concurrent.

*69. Organic Chemical Technology. Two lectures per week, second term.....Professor Phillips.

*70. Electrochemistry. (Arts and Science 11). One lecture per week.....Professor Mennie.

Reference books:—Creighton, Electrochemistry, (Wiley); Allmand, Applied Electrochemistry (Arnold); Glasstone, Electrochemistry of Solutions (Methuen).

*72. Advanced Inorganic Chemistry. (Arts and Seience 6). Two lectures per week.....Professor Mennie.

Text-book:—Caven and Lander, Systematic Inorganic Chemistry, (Blackie & Son).

*74. History of Chemistry. (Arts and Science 9). One lecture per week, optional.....Professor Barnes.

Text-book:—Partington, A Short History of Chemistry (Macmillan).

*75. Colloid Chemistry. (Arts and Science 15). One lecture per week (Laboratory work, see 66A).....Professor Winkler.

*Text-book:*Weiser: Colloid Chemistry (Wiley). Hartman: Colloid Chemistry (Houghton-Mifflin).

*76. Thermodynamics. (Arts and Science 17). Two lectures per week.....Professor Winkler.

Text-book:—Lewis & Randall—Thermodynamics.

*77. Chemical Engineering. (P. 63, C. 78). Five lectures per week.....Professor Phillips.

78. Chemical Engineering Laboratory. (C. 77). Six hours per week.....Professor Phillips.

Graduates in Chemical Engineering may proceed, if their work has been of sufficiently high standard, to the Master's degree in Chemistry or in Chemical Engineering. See Announcement of the Faculty of Graduate Studies and Research.

---

*Subjects marked with a star are open to graduates as well as undergraduates.

P—Prerequisite. C—Concurrent.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

Professors.....{E. Brown, R. DeL. French, R. E. Jamieson
Associate Professor.....G. J. Dodd
Assistant Professor.....F. M. Wood
Assistant in Charge of Testing Laboratory.....S. D. MacNab

First Year.

80. Engineering Problems. Three hours per week.
Professor Dodd and Staff.

Second Year.

80A. Engineering Problems. One lecture and two hours problems per week, second term.....Professor Phillips and Staff.

81. Materials of Engineering. One hour per week.
Professors Jamieson, French and Sproule.

Text-book:—Mimeographed notes.

83. Mechanics. (P. 194, C. 198). Two lectures and two hours problems per week.....Professors Jamieson and Dodd.

Text-books:—Poorman, Applied Mechanics (McGraw-Hill); Girvin, Applied Mechanics, (Int. Textbook Co.).

Third Year.

86. Mechanics. (P. 83, 198). One lecture per week.
Professor Wood.

Text-books:—Worthington, Dynamics of Rotation (Longmans Green); Poorman, Applied Mechanics (McGraw-Hill).

87. Strength of Materials. (P. 83, 198). Two lectures per week.
Professors Brown and Jamieson.

Text-books:—Morley, Strength of Materials (Longmans Green); Case, Strength of Materials (Arnold); Timoshenko, Strength of Materials, Part I (Van Nostrand).

88. Strength of Materials Laboratory. (C. 87). Three hours per week, second term.....Professor Jamieson and Staff.

P—Prerequisite. C—Concurrent.

89. Foundations. (C. 87). One lecture per week, session; three hours problems per week, second term.....Professor Dodd.

Text-book:—Jacoby and Davis, Foundations of Bridges and Buildings (McGraw-Hill).

90. Elements of Structural Design. (C. 87). One lecture and three hours problems per week, second term.....Professor Dodd.

Text-books:—Ketchum, Structural Engineer's Handbook (McGraw-Hill); Ketchum, Mill Buildings (McGraw-Hill); Bishop, Structural Drafting and Design of Details (Wiley); Voss and Varney, Architectural Construction, Vol. II, Book Two, Steel Construction (Wiley); American Institute of Steel Construction Handbook.

92. Railway and Highway Engineering. (P. 83, 346, 347, 348). Two lectures and six hours laboratory, first term; one lecture and three hours laboratory, second term.....Professors French and Wood.

Text-books:—Allen, Railway Curves and Earthwork (McGraw-Hill); Williams, Design of Railway Location (Wiley); Tratman, Railway Track and Trackwork (McGraw-Hill); Bruce, Highway Design and Construction (Int. Textbook Co.).

97. Hydraulics. (P. 83). Two hours per week, first term.
Professor Brown.

Text-books:—Schoder and Dawson, Hydraulics (McGraw-Hill); Gibson, Hydraulics and its Applications (Constable).

98. Hydraulics Laboratory. (C. 97.) Three hours per week, first term.....Professor Wood.

82. Sanitary Science. One hour per week, first term.
Professor Macdonald.

Fourth Year.

94. Theory of Structures. (P. 87.)

One lecture and three hours problems per week, first term; two lectures and six hours problems per week, second term...Professor Jamieson.

Text-books:—Johnson, Bryan and Turneaure, Modern Framed Structures, Parts I and II (Wiley); Spofford, Theory of Structures (McGraw-Hill); Sutherland and Bowman, Structural Theory (Wiley).

95 and 95A. Strength of Materials. (P. 87.) One lecture and three hours drafting-room per week, first term; two lectures per week, second term. Professors Brown and Jamieson.

Text-books:—Morley, Strength of Materials (Longmans Green); Case, Strength of Materials (Arnold); Timoshenko and Lessels, Applied Elasticity

---

P—Prerequisite. C—Concurrent.

(W. T. N. S. Press): Turneaure and Maurer, Principles of Reinforced Concrete Construction (Wiley); Hool and Pulver, Reinforced Concrete Construction (McGraw-Hill); Dean Peabody, Design of Reinforced Concrete Structures (Wiley); Standard Specifications for Concrete and Reinforced Concrete.

96. Bridge Design. (P. 90, C. 94.) Two lectures and six hours drafting-room per week, session.....Professor Dodd.

Text-books: — Kirkham, Structural Engineering (McGraw-Hill); Ketchum, Structural Engineers' Handbook (McGraw-Hill); Shedd, Structural Design in Steel (Wiley).

99. Hydraulic Machines. (C. 97.) Two lectures per week, second term.....Professor Brown.

Text-book:—Creager and Justin, Hydro-Electric Handbook (Wiley).

100. Hydraulics and Laboratory. (P. 83.) One lecture per week and six three-hour laboratory periods, first term.....Professor Wood.

Text-book:—King and Wisler, Hydraulics (Wiley); Daugherty, Hydraulics (McGraw-Hill).

101. Municipal Engineering. (P. 97, 98). Two lectures per week, session, three hours drafting-room per week, second term.
Professor French.

Text-books: — Babbitt and Doland, Water Supply Engineering (McGraw-Hill); Metcalf and Eddy, Sewerage and Sewage Disposal (McGraw-Hill).

103. Waste Disposal. (P. 82.) One lecture per week, first term.
Professor French.

Courses for the Degree of Master of Engineering

Graduate Courses are offered in Statically Indeterminate Structures. Technical Elasticity, Secondary Stresses, Hydraulics, and Highway Engineering.

For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Reserach.

DRAWING AND DESCRIPTIVE GEOMETRY

Mechanical Drawing and Lettering directed by Department of Mechanical Engineering.

Descriptive Geometry directed by Department of Surveying and Geodesy.

P—Prerequisite. C—Concurrent.

FIRST YEAR.

340. MECHANICAL DRAWING. Three hours per week.
Professor McCurdy and Mr. Arcand

Text-book:—Book of Plates (obtainable at Bursar's Office).

341. DESCRIPTIVE GEOMETRY. Six hours per week.
Professor Weir and Mr. Arcand.

Text-books:—French, Engineering Drawing (McGraw-Hill); W. G. Smith, Practical Descriptive Geometry, 4th Ed. (McGraw-Hill).

SECOND YEAR.

344. MECHANICAL DRAWING. (P. 340.) Three hours per week.
Professor McCurdy and Mr. Arcand.

Text-books:—Book of Plates; French, Engineering Drawing (McGraw-Hill).

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor.....C. V. CHRISTIE
Associate Professor.....G. A. WALLACE
Assistant Professor.....E. G. BURR
Lecturers.....W. H. SCHIPPEL, F. S. HOWES

111. ELEMENTS OF ELECTRICAL ENGINEERING. (P. 198, 315.) Two lectures per week.....Professor Wallace.

Text-book:—Gray and Wallace, Principles and Practice of Electrical Engineering (McGraw-Hill).

112. ELECTRICAL ENGINEERING LABORATORY. (C. 111.) Three hours per week.....Dr. Howes.

THIRD YEAR.

113. ELECTRICAL ENGINEERING. (P. 198, 315.) Four hours per week
Professor Christie.

Text-book:—Christie, Electrical Engineering (McGraw-Hill).

114. ELECTRICAL ENGINEERING LABORATORY. (C. 113.)
Six hours per week Laboratory.....Professor Burr.
Six hours per week Problems.....Professor Wallace.

FOURTH YEAR.

117. ELECTRICAL ENGINEERING. (P. 113, 114, 201.) Four lectures per week.....Professor Christie.

Text-book:—Christie, Electrical Engineering (McGraw-Hill).

P—Prerequisite. C—Concurrent.

118. ELECTRICAL ENGINEERING LABORATORY. (P. 113, 114, C. 117.) Six hours per week first term; nine hours per week second term. Mr. Schippel.

120. ELECTRIC LIGHTING AND POWER DISTRIBUTION. Two lectures per week, first term.....Professor Burr.

Text-book:—Standard Handbook for Electrical Engineers (McGraw-Hill).

121. ELECTRIC TRACTION. (C. 117.) Two lectures per week, second term.....Professor Wallace.

Text-book:—Standard Handbook for Electrical Engineers (McGraw-Hill).

122. ELECTRICAL DESIGN AND PROBLEMS. (P. 113, C. 117.) One lecture per week session. Problems three hours per week, first term; six hours per week, second term.....Professor Christie and Mr. Schippel.

Text-book:—Gray, Electrical Machine Design (McGraw-Hill).

123. APPLICATIONS OF ELECTRICITY. (P. 113, C. 117.) Three lectures per week, second term.....Professor Burr.

124. ELECTRICAL MEASUREMENTS AND LABORATORY. (P. 113.) Two lectures per week, first term; three hours laboratory per week, session. Professor Wallace.

125. THERMIONIC TUBE THEORY AND APPLICATIONS. (P. 318, 113.) Two lectures and three hours laboratory per week, first term...Dr. Howes.

Text-book:—Terman, Radio Engineering (McGraw-Hill).

126. COMMUNICATION ENGINEERING—WIRE COMMUNICATION. (P. 201, 113.) Two lectures per week, second term.....Professor Wallace.

127. COMMUNICATION ENGINEERING—RADIO COMMUNICATION. (P. 125.) Two lectures per week, second term.....Dr. Howes.

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING OR MASTER OF SCIENCE

Graduate courses are offered in Advanced Mathematics, Physics, Electrical Machine Design, Protection of Electrical Power Systems, Stability of Electrical Power Systems Inductive Co-ordination of Power and Signal Systems Electric Circuit Analysis, and Advanced Wire Transmission Theory.

For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

P—Prerequisite. C—Concurrent.

ENGINEERING LAW AND ECONOMICS

Assistant Professor of Economics.....JOHN CULLITON
Associate Professor of Law.....JOHN P. HUMPHREY
Lecturer in Accountancy.....D. R. PATTON

171. ELEMENTS OF POLITICAL ECONOMY. Two hours per week, second term.....Professor Culliton.

Text-book:—Clay, Economics for the General Reader (Macmillan).

172. ENGINEERING ECONOMICS. (P. 171.)

(a) CORPORATION FINANCE.....Mr. Patton.

(b) CANADIAN ECONOMIC PROBLEMS.....Professor Culliton.
Two lectures per week, first term.

175. ENGINEERING LAW. One hour per week..Professor Humphrey.

ENGINEERING PRACTICE

A series of related courses designed to acquaint the student with the historical background of his profession, its relation to other professions and its place in the structure of modern society, the usage of English, both written and spoken, in engineering and business; methods of statistical analysis, etc.

135. HISTORY OF SCIENCE. One lecture per week, session.

136. ENGINEERING REPORTS. One lecture per week, session.

137. ENGINEERING REPORTS. One lecture per week, session.

A bonus of 15 marks is granted to each student who successfully completes 137; this bonus is considered in ranking students, but not in determining whether they have passed their years.

DEPARTMENT OF GEOLOGICAL SCIENCES

Professors.....{JOHN J. O'NEILL, R. P. D. GRAHAM, T. H. CLARK
Associate Professors.....{J. E. GILL, F. F. OSBORNE
LeRoy Fellow.....

SECOND AND THIRD YEARS.

141. GENERAL GEOLOGY. (Arts and Science 1.)
Two lectures and two hours laboratory per week...Professor Clark.

Text-books:—Longwell, Knopf, Flint, Schuchert and Dunbar. "Foundations of Geology". (Wiley).

P—Prerequisite. C—Concurrent.

142. MINERALOGY. (Arts and Science 5.) Two lectures per week, session.....Professor Graham.

142A. MINERALOGY. (Chemical Engineers only). Two lectures per week, session.....Professor Graham.

143. DETERMINATIVE MINERALOGY. (Arts and Science 6.) Six hours laboratory, second term.....Professor Graham.

143A. DETERMINATIVE MINERALOGY. (Chemical Engineers only.) Three hours laboratory, first term.....Professor Graham.

FOURTH YEAR.

146. PETROGRAPHY. (Arts and Science 10. P. 141.) One lecture and three hours laboratory per week, first term; three hours laboratory per week, second term.....Professors Graham and Osborne.

References:—Knopf, Rocks and Rock Minerals (Wiley); Smith, Minerals and the Microscope (Morby).

147. PRACTICAL AND FIELD GEOLOGY. (Arts and Science 7. P. 141.) One lecture and three hours laboratory per week, first term.
Professor Gill.

148. ORE DEPOSITS. (Arts and Science 8. P. 141, C. 147.) Four lectures per week, second term.....Professor O'Neill.

Text-books:—Lindgren, Mineral Deposits, (McGraw-Hill); Leith, Economic Aspects of Geology (Holt); Emmons, Geology of Petroleum (McGraw-Hill); Ore Deposits of the Western States (A.I.M.E.); publications of the Geological Surveys of the U.S. and of Canada.

149. GEOLOGY OF CANADA. (Arts and Science 4. P. 141.) One lecture per week, first term.....Professor O'Neill.

153. FIELD WORK AND GEOLOGICAL MAPPING. (P. 141, 142, 143.)
Professors Clark and Gill.

DEPARTMENT OF MATHEMATICS

Professors.....N. B. MACLEAN, W. L. G. WILLIAMS

Assistant Professors.....F. M. WOOD, GORDON PALL (on leave of absence.)

Lecturer.....

FIRST YEAR.

191. SPHERICAL TRIGONOMETRY AND MENSURATION. Two lectures per week, first term.....Professors Jamieson and Wood.

P—Prerequisite. C—Concurrent.

Text-books:—Hall and Stevens, School Geometry, Part VI (Macmillan); Murray, Spherical Trigonometry, (Longmans, Green); Mathematical Tables (Chem. Rubber Pub. Co.).

192. ALGEBRA. Two lectures per week.
Professors MacLean and Williams.

Text-book:—Barnard and Child, A New Algebra, Vol. II. (Macmillan).

193. CALCULUS. Four lectures per week, second term.
Professors MacLean and Williams.

Text-book:—Granville, Smith and Longley, Elements of the Differential and Integral Calculus (Ginn.).

194. MECHANICS. Two lectures per week.
Professors Brown and Wood.

Text-book:—Mimeographed notes.

195. ANALYTICAL GEOMETRY. (C. 192.) Two lectures per week, first term.....Professors MacLean and Williams.

Text-book:—Brown and Manson, Elements of Analytical Geometry. (Macmillan).

SECOND YEAR.

198. CALCULUS. (P. 192.) Two lectures per week, first term; four lectures per week, second term.....Professors MacLean and Williams.

Text-book:—Granville, Smith and Longley, Elements of the Differential and Integral Calculus. (Ginn.).

THIRD YEAR.

201. DIFFERENTIAL EQUATIONS. (P. 198.) Three lectures per week, first term.....Professor MacLean.

Text-books:—Murray, Differential Equations (Longmans Green); Fry, Elementary Differential Equations (Van Nostrand).

DEPARTMENT OF MECHANICAL ENGINEERING

Professors.....C. M. McKERGOW, A. R. ROBERTS

Assistant Professors.....J. A. COOTE, R. H. PATTEN, L. R. McCURDY

Shop Instructor.....F. G. CORRICK

SECOND YEAR.

218. MECHANICS OF MACHINES. (P. 191, 192, 194.) One lecture, and three hours laboratory per week, second term....Professor Patten.

Text-book:—Guillet, Kinematics of Machines (Wiley).

P—Prerequisite. C—Concurrent.

THIRD YEAR.

223. MECHANICAL ENGINEERING LABORATORY. (C. 226.) Three hours per week for Electrical Engineering students only.

Professor Patten.

Text-book:—Diederichs and Andrae, Experimental Engineering (Wiley).

224. MECHANICS OF MACHINES. (P. 83, 218.) Alternative with Accounting (238). Two lectures and one hour problems per week.

Professor McCurdy.

Text-book:—Ewing, Steam Engine (Longmans Green).

225. MACHINE DESIGN. (C. 87). Two lectures per week.

Professor Roberts.

Text-books:—Berard and Waters, Machine Design, Van Nostrand); McKay, Principles of Machine Design (Arnold); Kimball and Barr, Elements of Machine Design (Wiley).

226. MECHANICAL ENGINEERING. (C. 223 and 228) Two lectures per week.....Professor McKergow.

Text-book:—MacNaughton, Elementary Steam Power Engineering (Wiley).

227. MECHANICAL ENGINEERING. (C. 228.) Three lectures per week.....Professor McKergow.

Text-book:—As for 226.

228. MECHANICAL ENGINEERING LABORATORY. (C. 226, 227.) Three hours per week for all students except those in Electrical Engineering.

Professor Patten.

Text-book:—Diederichs and Andrae, Experimental Engineering (Wiley).

229. THERMODYNAMICS. (P. 198.) Two hours per week.

Professor Roberts.

Text-books:—Keenan & Keyes, Properties of Steam (Wiley); Moyer, Calderwood and Potter, Elements of Engineering Thermodynamics (Wiley); Kiefer and Stuart, Engineering Thermodynamics (Wiley).

231. MECHANICAL DRAWING. (C. 225, P. 344, 233). Three hours per week.....Professor McCurdy.

Ref. books:—Berard and Waters, Machine Design (Van Nostrand); Haven and Swett, Design of Steam Boilers and Pressure Vessels (Wiley).

233. SUMMER SCHOOL. Prerequisite to courses 236 and 231. Four weeks in September, preceding the work of the Third Year.

Professor McCurdy and Mr. Corrick.

P—Prerequisite. C—Concurrent.

236. MACHINE SHOP. (P. 233). Three hours per week.
Mr. Corrick.

237. INDUSTRIAL ENGINEERING. Two lectures per week, first term.
Professor Coote.

Text-book:—Kimball, Industrial Organization (McGraw-Hill).

238. ACCOUNTING. Alternative with 224. One lecture and two hours problems per week.....Professor Coote.

Text-book:—Wade, Fundamentals of Accounting (Wiley).

FOURTH YEAR.

240. MECHANICS OF MACHINES. (P. 224.) (a) *Valve gears and governors.*

(b) *Aerodynamics.* Two lectures and one hour problems per week.
Professors McKergow and McCurdy.

Text-book:—Jones, Elementary Practical Aerodynamics (Wiley).

241. DESIGNING. (P. 225, 231, C. 242.) Three hours per week.
Professor Roberts.

242. MACHINE DESIGN. (P. 225, C. 241) Two lectures per week.
Professor Roberts.

Text-books:—Unwin, Machine Design, Parts I and II (Longmans Green); Kimball and Barr, Elements of Machine Design (Wiley); Faires, Machine Elements (Macmillan).

243. MACHINE DESIGN. (P. 225.) Optional for Electrical Engineering students. Two lectures per week, second term.....Professor Roberts.

244. POWER PLANT DESIGN. (P. 227, C. 247.) One lecture and three hours drafting room per week.....Professor McKergow.

Text-book:—Gebhardt, Steam Power Plant Engineering (Wiley).

247. HEATING AND VENTILATION OF BUILDINGS. (P. 227, C. 244.) One lecture per week.....Professor McKergow.

Text-book:—Allen and Walker, Heating and Air Conditioning. (McGraw-Hill).

249. MECHANICAL ENGINEERING LABORATORY. (P. 227, 228.) Nine hours per week.....Professors Roberts and Patten.

Text-books:—Diederichs and Andrae, Experimental Engineering (Wiley).

P—Prerequisite. C—Concurrent.

249A. MECHANICAL ENGINEERING LABORATORY. (P. 227, 228.) Required of students in Fourth Year Mechanical Engineering who take the Industrial Administration option. Six hours problems and drafting room per week.

251. THERMODYNAMICS. (P. 228, 229.) Two lectures per week. Professor Roberts.

Text-books:—Kiefer and Stuart, Engineering Thermodynamics. (Wiley); Goudie, Steam Turbines (Wiley).

252. MACHINE SHOP. (P. 236.) Three hours per week...Mr. Corrick.

253. INDUSTRIAL ENGINEERING. (P. 238.) Two lectures and three hours drafting room per week.....Professor Coote.

Text-book:—Lansburgh, Industrial Management (Wiley).

254. INDUSTRIAL ADMINISTRATION. (C. 252.) One lecture and three hours drafting room per week, second term.....Professor Coote.

257. EXPERIMENTAL ENGINEERING. (P. 227, 228, C. 249) One lecture per week.....Professor Roberts.

Text-book:—Diederichs and Andrae, Experimental Engineering (Wiley).

258. INDUSTRIAL RELATIONS. Two lectures per week, first term. Professor Coote.

Text-book:—Watkins and Dodd—The Management of Labor Relations (McGraw-Hill).

Summer Schools—see note (c), page 431.

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING OR MASTER OF SCIENCE

Graduate Courses are offered in Engineering Thermodynamics, Machine Design and Industrial Engineering. For particulars of these and qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

P—Prerequisite. C—Concurrent.

DEPARTMENT OF MINING AND METALLURGICAL ENGINEERING

Professors.....{Wilbert G. McBride, John W. Bell, J. U. MacEwan
Associate Professors.....{Gordon St. G. Sproule, O. N. Brown
Sessional Lecturer and Demonstrator.....M. D. O'Shaughnessy
Douglas Fellow (1940-41).....George O. Brown
Dawson Fellow (1940-41).....John E. Rehder
Harrington Fellow (1940-41).....Donald W. MacKenzie

MINING ENGINEERING

Third Year.

291. Mining Engineering. Two lectures per week, first term. (See 297).....Professor McBride.

292. Mineral-Dressing. (C. 142, 226.) Two lectures per week, second term. (See 300).....Professor Bell.

295. Crushing Machinery. (C. 226.) This precedes course 292 Two lectures per week, first term.....Professor Bell.

Text-books:—Taggart, Handbook of Ore Dressing (Wiley); Peele, Mining Engineers' Handbook (Wiley); Lewis, Elements of Mining (Wiley).

Fourth Year.

293. Mine Mapping. (P. 353, 354.) Three hours per week, first half of first term.....Professor Brown.

297. Mining Engineering. (C. 226, 291.) One lecture per week first term and three lectures per week in second.

Professors McBride and Brown.

298. Mining Design. (P. 111, 112, 226, C. 297, 300.) Six hours drafting room per week, second term.

Professors McBride, Bell and Brown.

300. Mineral-Dressing. (P. 292.) Two lectures per week, first term and one lecture per week in second term.

Professors Bell and Brown.

301. Mining Colloquium. (C. 297, 300.) One hour per week, second term, is given to papers on work done in the department and to other matters relating to mining and mineral-dressing.

P—Prerequisite. C—Concurrent.

305. Mineral-Dressing Laboratory. (P. 292, C. 300). (Metallurgical Engineering Students only). Three hours per week, first term.

307. Mineral-Dressing Laboratory and Thesis Work. (P. 264.) Three hours per week, first term, and seven hours per week, second term.

Text-books:—Rabone, Flotation Plant Practice (Mining Publications); Young, Working of Unstratified Mineral Deposits (Benn); Young, Elements of Mining (McGraw-Hill); Chapman and Mott, The Cleaning of Coal (Chapman & Hall); Bullman, The Working of Coal and Other Stratified Minerals (Benn); Baxter & Parks, Mine Examination and Valuation (Finnish Lutheran Book Concern); Weeks, The Ventilation of Mines (McGraw-Hill); Gaudins, Flotation (McGraw-Hill); Dorr, Cyanidation and Concentration of Gold and Silver Ores (McGraw-Hill).

Research Fellowships and Graduate Courses

Courses are offered for graduate students in mining and ore-dressing. (See Announcement of the Faculty of Graduate Studies and Research.) There are three endowed Research Fellowships in the Department. These are awarded to graduates of the Department who show particular aptitude for advanced work.

Field School in Mining

294. (P. 141.) All students in Mining Engineering are required to attend the field class at the end of the Third Year.

The work is confined to an intensive study of one or more districts with possible visits to nearby districts. The student is guided by the staff and is required to work in a mine or mineral-dressing plant for at least two months. He is also required to submit his notes and an essay on some phase of the work at the beginning of the Fourth Year.

Courses for the Degree of Master of Engineering

Graduate Courses are offered in Mining Engineering, Mine Organization and Management, Settling of Finely Divided Minerals in Water, Filtration in Mineral-Dressing and Cyanidation, Cyanidation of Gold and Silver Ores, Theory and Practice of Flotation, Fine Grinding and Mine Ventilation.

For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

P—Prerequisite. C—Concurrent.

METALLURGICAL ENGINEERING

THIRD YEAR.

261. ELEMENTARY METALLURGY. One lecture per week.
Professor Sproule.

Text-book:—Stoughton and Butts, Engineering Metallurgy (McGraw-Hill).

263. FIRE-ASSAYING. (C. 264.) One lecture per week, first term.
Professor Sproule.

264. FIRE-ASSAYING LABORATORY. (C. 263.) Three hours laboratory per week, first term.....Professor Sproule.

Reference-books:—Smith, Sampling and Assay of the Precious Metals (Griffin); Bugbee, Fire-Assaying (Wiley); Fulton and Sharwood, Manual of Fire-Assaying (McGraw-Hill).

266. PHYSICAL METALLURGY. One lecture and two hours laboratory per week, first term, for Mechanical Engineering students.
Professor Sproule.

268. METALLURGICAL FIELD SCHOOL. Held at the end of the Third Year; includes visits to metallurgical works in Montreal and vicinity, and to smelters, steel-works and metallurgical refineries within a reasonable distance of Montreal. Students are required to keep notes and to submit a written account of their observations at the conclusion of the Field School. The only expense is for board, lodging and railway fares; care is taken to keep these as low as possible.

FOURTH YEAR.

271. METALLURGY (General). (P. 261.) Two lectures per week, session.....Professors MacEwan and Sproule.

Reference-books are available in Departmental Library.

272. METALLURGY (Advanced). (P. 261, 275.)
Four hours per week, second term.....Professor MacEwan.

Reference-books are available in Departmental Library.

273. METALLURGICAL LABORATORY. (P. 261.) Three hours laboratory per week, first term.....Professor Sproule.

274. METALLURGICAL THESIS. (P. 261, C. 271.) Three hours laboratory per week, first term; nine hours laboratory per week, second term.....Professors MacEwan and Sproule.

P—Prerequisite. C—Concurrent.

275. ELECTRO-METALLURGY. Three lectures per week, first term.
Professor MacEwan.

Text-book:—Glasstone, Electro Chemistry of Solutions (Methuen).

277. METALLURGICAL COLLOQUIUM. One hour per week, second term.....Professors MacEwan and Sproule.

278. METALLURGICAL PROBLEMS AND DESIGN. (P. 265, C. 272). Three hours per week, drafting room, first term; two lectures and three hours per week, library and drafting room, second term.
Professor MacEwan.

279. METALLURGICAL ANALYSIS. (P. 53.) Three hours laboratory per week, first term.....Professors MacEwan and Brown.

280. METALLOGRAPHY. Two lectures per week, first term, one lecture per week, second term.....Professor Sproule.

Text-books:—Sauveur, Metallography of Iron and Steel (University Press); Doan, Principles of Physical Metallurgy (McGraw-Hill); Van Wert, Introduction to Physical Metallurgy (McGraw-Hill); Jeffries and Archer, Science of Metals (McGraw-Hill).

281. METALLOGRAPHIC LABORATORY. Three hours per week, second term.....Professor Sproule.

283. METALLURGICAL CALCULATIONS. (P. 261, C. 271.) Two lectures per week, second term, for Mining Engineering Students.
Professor MacEwan.

284. METALLURGICAL LABORATORY. Three hours per week, second term, arranged to illustrate 261 and 271. For Mining Engineering Students.....Professor Sproule.

GRADUATE COURSE FOR AVIATION OFFICERS. A course dealing with the properties and treatment of metals and alloys is offered to Officers of the Royal Canadian Air Force. It is given in the first term and consists of lectures, oral instruction, directed reading and laboratory work.—Professor Sproule.

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

Graduate Courses are offered in Advanced Metallurgy, Electro-Metallurgy, Metallurgical Problems and Metallography. For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

P—Prerequisite. C—Concurrent.

DEPARTMENT OF PHYSICS

Professors.....{A. N. Shaw, D. A. Keys, J. S. Foster
Associate Professors.....{H. E. Reilley, W. H. Watson
Assistant Professor.....D. K. Froman
Lecturers.....{H. G. I. Watson, F. R. Terroux, ...
Instructor in Laboratory Technique.....H. T. Pye
and demonstrators.

First Year (Architecture).

General Course. (Arts and Science 1.) Three lectures per week.—Professor Keys.

Text-book:—Mendelhall, Eve and Keys, College Physics (Heath).

Laboratory Course. (Arts and Science 1.) Two hours per week.—Professor Keys, Professor Froman, and demonstrators.

Text-book:—An Elementary College Course in Experimental Physics. (Renouf Pub. Co.).

First Year.

311. Heat, Sound and Light. (Arts and Science 2.) (C. 312.) Two lectures and one hour tutorial per week. Professors Shaw and Froman.

Text-book:—Duncan and Starling, Heat, Light and Sound (Macmillan).

312. Laboratory Course. (Arts and Science 2.) (C. 311.) Two hours per week.—Dr. Terroux, and demonstrators.

Text-book:—Heat, Sound and Light Laboratory Manual. (Renouf Pub. Co.).

Second Year.

315. Electricity and Magnetism. (Arts and Science 3A.) (P. 311, C. 316.) Two lectures and one hour voluntary tutorial per week.—Professor Reilley and Dr. H. G. I. Watson.

Text-book:—Zeleny, Elements of Electricity (McGraw-Hill).
Reference Book: Starling, Electricity and Magnetism (Longmans).

316. Laboratory Course. (Arts and Science 3A.) (P. 311, C. 315). Three hours per week. Dr. H. G. I. Watson and demonstrators.

Text-book:—Electricity and Magnetism Laboratory Manual (mimeographed).

P—Prerequisite. C—Concurrent.

THIRD YEAR.

318. ELECTRICITY. (Arts and Science 6C.) (P. 315.) Two lectures per week, second term.....Professor Keys.

Text-book:—Crowther, Ions, Electrons and Ionizing Radiations (Arnold).

FOURTH YEAR.

320. APPLIED GEOPHYSICS. (Arts and Science 12, Graduates W.) Two lectures per week, first term.....Professor Keys.

Text-book:—Eve and Keys, Applied Geophysics, 2nd edition (Cambridge).

Reference Book:—Ambronn, Elements of Geophysics, (trans. Cobb.), (McGraw-Hill).

For Graduate Courses in Physics see the Announcement of the Faculty of Graduate Studies and Research.

COURSE IN ENGINEERING PHYSICS

This course is intended to train men for research or academic positions. Subject to the approval of the Chairmen of the Departments of Electrical Engineering and of Physics, it is available to

(1) students in the Faculty of Arts and Science entering their third year who have satisfactorily completed the second year Honours Course in Mathematics and Physics.

and (2) students in Engineering who have completed the first and second years with first or second class standing in Mathematics and Physics.

The numbers of the courses below refer to the Physics syllabus given in the Announcement of the Faculty of Arts and Science.

THIRD YEAR.

Mathematics, 6 & 7.

Physics, 5B, 6B (or 8B), 6C.

Electrical Engineering, 113, 114.

FOURTH YEAR.

Mathematics, 10 or 11.

Physics. 5A, 6A, 7A, 7B, 8A, 8B (or 6B), 9.

*Summer Thesis or Shop Work.

The student may now receive the B.Sc. degree with Honours in Mathematics and Physics. In his fifth year he may either proceed towards

*This is required in the case of students proceeding later to the degree of B.Eng. P—Prerequisite. C—Concurrent.

the M.Sc. degree taking some of the fourth-year Electrical Engineering courses as advised by the Chairmen of the Departments of Physics and of Electrical Engineering; or, if he has completed the first and second years in Engineering, he may proceed to the degree of Bachelor of Engineering in Electrical Engineering, taking such subjects of the third and fourth year courses in Engineering as are approved by the Faculty of Engineering.

DEPARTMENT OF SURVEYING AND GEODESY

Associate Professors . . . . . A. J. Kelly, James Weir
Lecturer . . . . . L. J. Arcand

First Year.

345. Surveying. (P. 191.) Two lectures per week, second term.
Professor Kelly.

Text-book:—Davis, Foote and Rayner, Surveying (McGraw-Hill).

Second Year.

346. Surveying. (P. 345.) Two lectures per week.
Professor Kelly.

Text-book:—Davis, Foote and Rayner, Surveying (McGraw-Hill).

347. Field Work.

348, 349, Mapping.

Third Year.

351. Map Projections. Three hours drafting room, first term.
Professor Weir.

352. Surveying. (P. 346, 347.) One lecture per week.
Professor Kelly.

Text-books:—Davis, Foote and Rayner, Surveying (McGraw-Hill); Durham, Mine Surveying (McGraw-Hill).

353. Surveying. (P. 346, 347.) Two lectures per week.
Professor Weir.

Text-books:—Breed and Hosmer, Principles and Practice of Surveying, Vol. II, (Wiley); Hosmer, Practical Astronomy (Wiley).

354. Field Work. (P. 346, 347).

Fourth Year.

359. Geodesy. (P. 353.) Two lectures per week, first term.
Professor Weir.

Text-book:—Hosmer, Geodesy (Wiley).

P—Prerequisite. C—Concurrent.

361. FIELD WORK. (P. 353, 354.)

360. GEODETIC LABORATORY. (C. 359.) Three hours per week, first term.....Professor Weir.

FIELD WORK

Field work is required of all students entering the Second Year, of students entering the Third Year in the courses in Civil and in Mining Engineering, and of students entering the Fourth Year course in Civil Engineering. The work will begin in 1941 on April 28th and will continue for four weeks.

Students entering Second and higher Years from other Universities or from other Faculties, who cannot attend the above courses in Field Work, must attend Special Summer Schools, details of which are given on page 431.

REGULATIONS CONCERNING PREREQUISITE SUBJECTS, STANDING AND PROMOTION

(1) Students proceeding to a degree are classed as Undergraduates or Conditioned Undergraduates. Undergraduates are those who, having passed all entrance requirements, have also at the close of any session passed the examinations in all the subjects of their courses or who, at the opening of the following session, have removed all conditions by passing supplemental examinations in the subjects in which they failed. Conditioned Undergraduates are those who have failed to remove all of their conditions as above.

(2) No student proceeding to a degree is allowed to take any subject unless he has previously passed, or secured exemption in, all prerequisite subjects.

(3) No undergraduate conditioned in any entrance requirement is permitted to register for any Second Year course nor is any undergraduate conditioned in any First or Second Year subject permitted to register for any Third or Fourth Year courses.

(4) Conditioned Undergraduates proceeding to a degree must follow a course of study approved by the Faculty on the recommendation of the Committee on Registration, Standing and Promotion. They may be required to repeat subjects in which they have passed, but in which their standing has been low.

P—Prerequisite. C—Concurrent.

(5) Partial students are those who are not proceeding to a degree. Such students may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the chairman of each department concerned, and that their courses are approved by the Committee on Registration, Standing and Promotion.

(6) If a partial student wishes to obtain undergraduate standing in order to proceed to a degree, he will not be given credit for subjects taken in contravention of the prerequisite rule, until he has also passed examinations or secured exemptions in such prerequisites as may be demanded by the Committee on Registration, Standing and Promotion, and, on the recommendation of this Committee, has had his case approved by a unanimous vote of the Faculty.

(7) Partial students are not eligible to take supplemental examinations.

(8) No Fourth Year student is allowed a supplemental or special supplemental examination in any subject in the period between the opening of the second term and the date of Convocation.

McGILL UNIVERSITY

MONTREAL

FACULTY OF MEDICINE

McGILL UNIVERSITY

MONTREAL

FACULTY OF MEDICINE

1940-41

TABLE OF CONTENTS

	Page
Administrative Officers	485
Admission to Medicine	488
Alpha Omega Alpha Honorary Medical Society	531
Anatomy	497
Anæsthesia	516
Bacteriology	502
Biochemistry	500
Board and Lodging	490
Buildings	525
Bursaries	495
Clinical Therapeutics	509
Course for the Degree of M.D., C.M.	490
Courses of Instruction	497
Dermatology	509
Diploma of Public Health	524
Dominion Registration	496
Embryology	498
Entrance Requirements	487
Equivalent Standing in Medicine	488
Examinations	492
Fees	489
Fellowships	495
General Council of Medical Education	496
Grading	494
Graduate and Advanced Courses	524
Gynæcology	519
Health	490
Histology	498
Hospitals	527
Immunity	502
Library	529
Loan Fund	495

	Page
Medals	495
Medical Societies	530
Medicine	508
Microscopes	490
Microscopic Anatomy	498
Neurology and Neurosurgery	514
New Regulations for the degree of M.D., C.M.	490
Obstetrics	519
Ophthalmology	522
Orthopædic Surgery	516
Osler Library	530
Osler Society	531
Oto-Laryngology	523
Parisitology	504
Pathological Chemistry	500
Pathology	501
Pædiatrics	513
Pharmacology	506
Physiology	499
Prizes	495
Promotion	494
Psychiatry	508
Public Health and Preventive Medicine	504
Radiology	516
Reciprocity with Great Britain	496
Registration	488
Requirements for Degree of M.D., C.M	495
Requirements for Licence	495
Scholarships	495
Surgery	515
Therapeutics	506
Undergraduate Medical Society	530
Urology	516
Veterinary Public Health	525

McGILL UNIVERSITY

FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, B.Com., M.A., Ph.D., F.R.S.C.

Dean of the Faculty of Medicine.....J. C. Simpson, B.Sc., LL.D.

Associate Dean of the Faculty of Medicine.....J. C. Meakins, M.D., C.M., LL.D., F.R.C.P., F.R.S.C.

Secretary and Bursar.....F. O. Stredder, M.A., Ph.D.
(on military service)

Registrar.....T. H. Matthews, M.A.

Assistant Bursar.....W. Bentley, C.G.A., A.C.I.S.

University Librarian.....Gerhard R. Lomer, M.A., Ph.D., F.L.A.

Honorary Medical Librarian.....R. L. Stehle, M.A., Ph.D.

Osler Librarian and Director of the Museum of the History of Medicine.W. W. Francis, A.B., M.D.

Assistant Secretary, Faculty of Medicine.....Miss G. D. Mudge

A complete list of the teaching staff of the University, including the Faculty of Medicine, is printed as a separate announcement, which may be obtained from the Registrar's Office.

FACULTY OF MEDICINE

The one hundredth and eighth session of the Faculty will open on September 4th, 1940, for students of all years.

ENTRANCE REQUIREMENTS

A sound general education is an essential foundation for professional training and a four-year course leading to a B.A. or B.Sc. degree is considered the most desirable preparation for the study of medicine. Preference will be given, therefore, to applicants who have had a full academic course in which the humanistic studies have not been sacrified to a narrow scientific specialization. Candidates without a degree should have at least three years of college work.

It is distinctly to be understood that the Faculty does not undertake to accept all students who have passed the courses necessary to fulfil the requirements. It reserves the right to select for admission only those candidates who, in the opinion of the Committee on Admissions, give promise of work of high quality in the medical course.

All applicants must present satisfactory evidence that their college courses include the following:—

PHYSICS—One year of General College Physics with laboratory work.

BIOLOGY.—One year of General Biology and Zoology with laboratory work. One half-year of Botany and one half-year of Zoology will be accepted, but not one year of Botany alone.

CHEMISTRY:—Two years:—

(a) One full course of General Chemistry with laboratory work.

(b) One full course of Organic Chemistry with laboratory work.

Students who wish to pursue their preliminary course at McGill may register as regular undergraduates in the Faculty of Arts and Science and should apply for admission to the Faculty of Medicine at the end of their third year or preferably on graduation.

Candidates for admission to the Faculty of Medicine must also present evidence that they have satisfied the matriculation requirements of the Licensing Body of the Province to which they belong (for further particulars see "Requirements for Licence to Practise," p. 495).

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty.

As the number of students in each class is limited, application should be made early and in any case not later than March 1st.

A fee of $25.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Dean or Secretary of the Faculty, when possible, is advisable.

APPLICATION FOR EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a Calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office on Tuesday, September 3rd, 1940. Those who register after this date will be required to pay a late registration fee of $5.00 if they register during the first week of the session and $10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

UNIVERSITY FEES

1. Regular Students.

Annual fee for British students	$375.00
By instalments: each of two instalments	190.00
Annual fee for Non-British students	475.00
By instalments: each of two instalments	240.00

2. Repeating a Year.

British students repeating a year pay	200.00
Non-British students repeating a year pay	250.00

3. Partial Students.

Qualified students may be admitted as partials to one or more courses on payment of special fees.

4. Ad Eundem Fee.

Students entering any year above the first pay a special *ad eundem* fee of $10.00

5. Diploma in Public Health Fees.

The fee for the graduate course in Public Health, including laboratory and outdoor work, is $150.00 for British and $200.00 for Non-British students. Students in this course are eligible for Health Service on payment of $5.00.

6. Caution Money.

Payable by every student, and returned, less deductions for damage, loss, etc., at the end of the session 10.00

STUDENT FEES

Fees for the Support of Student Organizations.

Regular students (men)	$11.00
Regular students (women)	9.00
Partial students	5.00

DATES OF PAYMENT

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 4 p.m. on the following dates:—

Tuesday, September 3rd to Thursday September 5th, inclusive.

or, if desired, fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

All fees are payable in Canadian currency.

Domicile will in general determine whether a student pays the British or Non-British fees. A student who is uncertain which rate he will be required to pay should consult the Registrar.

For further information and for a list of special fees see the General Information Pamphlet included in this Announcement.

Microscopes

Each student, on beginning his studies, is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories:—2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Information Pamphlet included in this Announcement (pages 94 to 99).

HEALTH SERVICE

For details of the Health Service and Medical Examination see the General Information Pamphlet included in this Announcement (page 92).

COURSE AND EXAMINATIONS FOR THE M.D., C.M. DEGREE

Beginning with the class of students entering the first year in September, 1936, the course in the Faculty of Medicine was reorganized. The new regulations provide that:

> The minimum period of professional training required by the University as a qualification for the independent practice of medicine shall be five years, including—

(*a*) Four years of medical study in the University leading to the degree of M.D., C.M.; and

(*b*) One year of interneship in an approved hospital, *or* one year of further medical study in the Faculty of Medicine of McGill University or in another medical school approved by it.

In the four-year medical course the session is nine months, extending from the first week in September until the first week in June, with two weeks' vacation at Christmas and one week at Easter, thus covering thirty-six weeks.

The fifth year of training, which is required before licence in all Canadian Provinces and in 19 States of the Union, is post-graduate, so that those who choose to devote it to interneship enter the hospital with all the advantages that accrue from the the possession of a medical degree.

On the satisfactory conclusion of the year of interneship or of advanced study the Faculty issues to the graduate a certificate that he has satisfied the University requirements and is eligible to present himself for the examination of a licensing board.

The arrangement of the major subjects of instruction is as follows:

First Year:

Anatomy, Histology and Embryology, Physiology.

Second Year:

Anatomy, Physiology, Biochemistry, Pharmacology, General Pathology, Bacteriology, Parasitology, Medicine, Surgery, Obstetrics.

Third Year:

Special Pathology, Bacteriology and Immunology, Public Health, Medicine, Surgery, Obstetrics and Gynæcology, Pædiatrics, Mental Hygiene, Psychiatry, Therapeutics, Ophthalmology, Otolaryngology, and Medical Jurisprudence,

Fourth Year:

Pathology, Medicine, Surgery, Obstetrics and Gynæcology, Pædiatrics, Ophthalmology, Otolaryngology.

A. THE MEDICAL COURSE

The academic year is divided into three terms and the minimum period of study required for the degree is twelve terms (four years).

The subjects comprised in the medical course are arranged in two groups:

The Pre-clinical Group:

Anatomy.
Histology and Embryology.
Biochemistry.
Physiology.
Pharmacology.

The Clinical Group:

Bacteriology.
Pathology.
Public Health and Preventive Medicine.
Medicine (including Pædiatrics, Neurology, Psychiatry, Dermatology and Laboratory Diagnosis).
Surgery (including Urology, Orthopædic Surgery, and Radiology).
Obstetrics and Gynæcology.

B. EXAMINATIONS

1. *Final or University Examinations* will be held in each major required subject of the curriculum. Grades attained in these examinations will be entered in the students' records, and will be the only grades used in determining aggregate standing.

To qualify for the University examination the student must have fulfilled the following conditions:

Anatomy: must have completed three terms of instruction in the subject and have passed all required course examinations.

Histology and Embryology: must have satisfactorily completed two terms of instruction in the subject and have passed all required course examinations.

Physiology: must have satisfactorily completed three terms of instruction and have passed all required course examinations.

Biochemistry: must have completed two terms of instruction and have passed all course examinations in the subject.

Pharmacology: must have satisfactorily completed one term of instruction.

Bacteriology: must have completed a course in Bacteriology *and* must have taken at least four terms of clinical instruction.

Pathology: must have completed at least three terms of work in the subject.

Public Health: must have completed the course and have taken at least three terms of clinical instruction.

Medicine: the *written* examination may be taken at any time after completion of six terms of clinical instruction, including three terms in Medicine. The *practical* examination may be taken on completion of seven terms of clinical instruction.

Surgery: the *written* examination may be taken at any time after completion of six terms of clinical instruction, including three terms in Surgery. The *practical* examination may be taken on completion of seven terms of clinical instruction.

Obstetrics: both written and practical examinations may be taken on the completion of seven terms of clinical instruction.

2. *Departmental or Course Examinations*, i.e., examinations held during, or at the conclusion of individual courses in any subject and for the purpose of determining the students' progress and fitness to proceed in a given subject.

The following special regulations have been adopted in respect to course examinations in the clinical subjects:

1. *Pathology*—A course examination on the termination of the course in General Pathology.

2. *Medicine*—At the end of each term the group teachers shall report on the progress made by each student in their groups.

3. *Surgery*—At the end of each term the group teachers shall report on the progress made by each student in their groups.

4. *Obstetrics*—An oral examination at the end of the course of didactic lectures in the 3rd year; and an oral and practical exam ination at the end of each term in the 4th year.

To qualify for the Final Examinations leading to the degree, a student must have passed the course examinations in the required subjects of the clinical group, and must have satisfactorily completed the prescribed courses of study and practice in:

I. Ophthalmology.

II. Oto-Laryngology.

III. Psychiatry.

IV. Infectious Diseases.

V. Anæsthesia.

VI. Pathological Anatomical Technique and methods of Post Mortem Examination and Diagnosis.

VII. Public Health Survey.

The Final Examinations in Medicine, Surgery and Obstetrics must all be passed at one time, but a student who fails in one of these subjects only may, at the discretion of the Faculty, be allowed a re-examination in that subject at the next regular examination period, provided that he shall have satisfactorily completed such additional work as may be prescribed by the Chairman of the Department concerned.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent.

At the end of the Spring Term, the Promotion Committee considers the cases of all students who are reported by their instructors as having fallen below the grade of C and determines whether such students are to be allowed to continue, warned, required to repeat the course or courses, or to retire from the Faculty.

NOTE:—The "Required Courses," together with suitable "Elective Courses" in the second year, qualify a candidate for the Primary Examination for Fellowship in the Royal College of Physicians and Surgeons of Canada.

C. GRADING

At the conclusion of each course, students are graded in five groups, as follows:—

A = Excellent
B = Good
C = Fair
D = Doubtful
E = Failure

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

The grade assigned to a student is based upon the result of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

The quality of the English used by a candidate is taken into account in determining his standing in all examinations.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, MEDALS, PRIZES, AND LOAN FUNDS

Details of fellowships, scholarships, bursaries, medals, and prizes open to undergraduate and graduate students in Medicine, and of the University Loan Fund may be found in the Scholarships Announcement.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.

2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than eight months each in this University or in some other university, college or school of Medicine, approved by this University.

3. No one is permitted to become a candidate for the degree who has not attended at least one full session at this University.

4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the Medical course.

5. He must have attended during at least three sessions or nine terms the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University; and must have acted as clinical clerk for six months in Medicine and six months in Surgery and have fully reported upon at least ten medical and ten surgical cases.

6. He must also have attended during two terms the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7. Every candidate must also have administered anæsthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE TO PRACTISE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensing is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before *beginning* the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained.

N.B.—In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:—

QUEBEC—Dr. E. Prud'homme, 1896 Dorchester St. West, Montreal.

ONTARIO—Dr. Robert T. Noble, 566 University Avenue, Toronto, Ont.

NEW BRUNSWICK—Dr. J. M. Barry, 182 Princess St., Saint John, N.B.

NOVA SCOTIA—Dr. H. L. Scammell, Halifax, N.S.

PRINCE EDWARD ISLAND—Dr. H. D. Johnson, 275 Richmond St., Charlottetown, P.E.I.

MANITOBA—Dr. W. G. Campbell, 605 Medical Arts Building, Winnipeg, Man.

ALBERTA—Dr. George R. Johnson, Calgary, Alta.

SASKATCHEWAN—Dr. J. G. K. Lindsay, 307 Birks Bldg., Saskatoon, Sask.

BRITISH COLUMBIA—Dr. A. J. MacLachlan, 203 Medical-Dental Building, Vancouver, B.C.

The Registrar for Newfoundland is Dr. C. Macpherson, St. John's, Nfld.

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, Dr. J. Fenton Argue, 180 Metcalfe Street, Ottawa, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION AND REGISTRATION OF GREAT BRITAIN

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matri-

culation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

COURSES OF INSTRUCTION

ANATOMY

Robert Reford Professor and Chairman of the Department . . . C. P. MARTIN
Assistant Professor of Histology . . H. SELYE
Lecturer in Histology . . . . . A. J. DALTON
Senior Demonstrator in Anatomy . D. S. FORSTER
Demonstrators in Anatomy . . . . . F. S. DORRANCE, G. A. HOLLAND, J. C. LUKE, A. M. VINEBERG, E. W. WORKMAN
Demonstrators in Histology . . . . . FRANCES M. FISHER, E. W. WORKMAN, W. WALFORD
Teaching Fellows in Anatomy . . . EDWIN BROWN, F. L. MCNAUGHTON, F. T. MILES

REQUIRED COURSES

1. GROSS ANATOMY.

   Five hours lectures and fifteen hours laboratory work per week during the Autumn, Winter and Spring terms of the First Medical Year.

2. APPLIED ANATOMY.

   One hour per week lecture and demonstration during the Winter and Spring terms of the Third Medical Year. This course is conducted mainly by clinicians from the Royal Victoria and Montreal Genera Hospitals.

Text-books:—Gray's "Anatomy" (English Edition) or Cunningham's "Text-Book of Anatomy".

Practical Manuals:—Cunningham's "Manual of Practical Anatomy"; Johnston's "Synopsis of Regional Anatomy".

Optional Texts:—Quain, Piersal, Spalteholz Atlas, Fraser's "Anatomy of the Human Skeleton", Buchanan, Frazer and Robbins, Larsell, Ramson.

Elective Courses

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

3. Advanced Neuro-Anatomy.

Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton, assisted by Drs. Petersen and Kershman. The class is limited to twelve. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

4. Physical Anthropology.

Three hours per week lecture and laboratory work for two terms on the Comparative Anatomy of the Human Skeleton, Fossil Man, and the Ancestral History of Man as far as it may be inferred from fossil remains.

MICROSCOPIC ANATOMY

Required Course

5. Histology.

The study of the histological structure of the body with the exception of the central nervous system and the special sense organs. Three hours lectures and six hours laboratory work per week during the Autumn and Winter terms of the First Medical Year.

Text-book:—Bailey, "Text-Book of Histology".

Optional Texts:—Cowdry, Lewis, and Bremer, Jordan, Maximow and Bloom (Schafer).

Elective Course

6. Experimental Morphology.

Bi-weekly seminar. In this course current problems and discoveries in Experimental Morphology are discussed by members of the staff and graduate students.

EMBRYOLOGY

Required Course

7. The Study of Human Developmental Anatomy.

Three hours per week lecture and laboratory work during the Spring term of the First Medical Year.

Text-book:—Arey, "Developmental Anatomy".

Optional Texts:—Jordan, Simkins, Bailey and Millar, Keith, Fraser.

PHYSIOLOGY

Research Professor and Chairman of the Department.....BORIS P. BABKIN
The John Morley Drake Professor.....
Assistant Professor.....N. GIBLIN
Lecturers.....S. DWORKIN, S. KOMAROV, D. A. ROSS
Demonstrator.....RHODA GRANT

REQUIRED COURSES

1. FIRST YEAR LECTURES.

Monday, Wednesday, Friday, at 9; and Tuesday at 12; Winter and Spring Terms.

1P. FIRST YEAR LABORATORY.

Six hours a week, Spring Term.

2. SECOND YEAR LECTURES.

Tuesday, Thursday, Saturday, at 9. Autumn Term.

2P. SECOND YEAR LABORATORY (Mammalian).

Eight hours a week. Autumn Term.

Text-books:—

Systematic Physiology—Human.

Howell, Textbook of Physiology; Starling (and Evans), Human Physiology; MacLeod (and Bard), Physiology in Modern Medicine.

Clinical Physiology.

Samson Wright, Applied Physiology; Wiggers, Physiology in Health and Disease; Best and Taylor, Physiological Basis of Medical Practice.

Laboratory Manuals (requisite).

Sharpey-Schafer, Experimental Physiology; Sherrington and Liddell, Mammalian Physiology.

OTHER COURSES

(Available only for students who have obtained Honours in the Required Courses, and by application to the Chairman of the Department).

3. ADVANCED LECTURES.

3P. ADVANCED LABORATORY.

BIOCHEMISTRY AND PATHOLOGICAL CHEMISTRY

Gilman Cheney Professor and Chairman of the Department... J. B. COLLIP

Professor..... D. L. THOMSON

Lecturers in Pathological Chemistry..... J. S. L. BROWNE, E. H. MASON, I. M. RABINOWITCH*

Lecturers..... O. F. DENSTEDT, A. H. NEUFELD

The Department offers, in addition to the required lecture and laboratory course, an elective course in Endrocrinology; other courses are described in the Announcement of the Faculties of Arts and Science, and of Graduate Studies and Research.

1. GENERAL PHYSIOLOGICAL CHEMISTRY:

(a) Lectures: Monday, Wednesday, Friday, at 9.

(b) Laboratory: Six hours weekly, Monday morning and Thursday afternoon, or Tuesday afternoon and Friday morning.

Text-books:—Bodansky, "Introduction to Physiological Chemistry" (Wiley); Cameron, "Text-Book of Biochemistry", (Macmillan); Williams, "Text-Book of Biochemistry" (van Nostrand); Cameron and Gilmour, "Biochemistry of Medicine" (Churchill); Wright, "Applied Physiology" (Oxford Univ. Press). A synopsis of the laboratory course is issued by the Department.

This course is given in the Autumn and Winter terms.

2. ENDOCRINOLOGY

Lectures: Wednesday at 3.

Text-book:—Cameron, "Recent Advances in Endocrinology" (Blakiston).

---

*On military service.

PATHOLOGY

Strathcona Professor and Chairman of the Department. . . . . G. LYMAN DUFF
Professor. . . . . L. J. RHEA
Assistant Professor. . . . . THEO. R. WAUGH
Lecturers. . . . . J. E. PRITCHARD, F. W. WIGLESWORTH*
Lecturer in Neuropathology. . . . . W. V. CONE*
Demonstrators. . . . . E. S. INGRAHAM, H. D. CHIPPS
Douglas Fellow. . . . . R. H. MORE
Assistant Demonstrators. . . . . E. H. ANDERSON, H. L. FOSTER, R. D. MCKENNA, D. R. MURRAY, L. SHAPIRO

REQUIRED COURSES

1. COURSE IN GENERAL PATHOLOGY (Second Year).

   A. Two lectures per week (with epidiascopic and microscopic demonstrations) during the Winter and Spring terms (52 lectures).
   Professor Duff.

   B. Two practical laboratory classes per week during the Spring Term (80 hours practical work).
   Professor Duff, ... and Demonstrators.

2. COURSE IN SPECIAL PATHOLOGY (Third Year).

   A. Two lectures per week during the Autumn, Winter and Spring Terms (72 lectures).
   Professor Duff, Professor Waugh and Lecturers.

   B. Two practical laboratory classes per week during the Winter and Spring Terms (96 hours practical work).
   Professor Waugh and Demonstrators.

   C. One demonstration of gross pathological material per week to students in small groups of 15 each, during Autumn, Winter and Spring Terms (36 hours.)
   . . . . . Dr. Ingraham and Dr. Chipps.

3. COURSE IN APPLIED PATHOLOGY (Third and Fourth Years).

   A. Clinical-Pathological Conferences with demonstrations of autopsy material. Once a week during the Autumn, Winter and Spring Terms. . . . . Professor Duff, and members of the Clinical Staff.

*On military service.

B. Group instruction in performance of autopsies with demonstrations of autopsy findings, during Autumn, Winter and Spring Terms. Time according to material.
Pathological Institute.....Professor Duff and Dr. Ingraham.
Montreal General Hospital..Professor Rhea and Dr. Pritchard.
Children's Memorial Hospital.....

Text Books:—MacCallum, A Text-Book of Pathology (Saunders); Karsner, Human Pathology (Lippincott); Boyd, Text Book of Pathology (Lea & Febiger); Muir, Text-Book of Pathology (Arnold).

REFERENCE BOOKS.

General:—Aschoff, Pathologische Anatomie (Gustav Fischer); Boyd, Surgical Pathology (Saunders); Boyd, Pathology of Internal Diseases (Lea & Febiger); Oertel, Outlines of Pathology (Renouf); Reimann, Kaufmann's Pathology (Blakiston); Smith & Gault, Essentials of Pathology (Appleton Century); Wood, Delafield & Prudden's Text-Book of Pathology (Wm. Wood & Co.); Wells, Chemical Pathology (Saunders).

Tumours:—Ewing, Neoplastic Diseases (Saunders); Geschickter & Copeland, Tumors of Bone (American Journal of Cancer); Willis, The Spread of Tumours in the Human Body (Churchill).

Haematopathology:—Naegeli, Blutkrankheiten und Blutdiagnostik, Julius Springer); Whitby & Britton, Disorders of the Blood (Churchill).

Neuropathology:—Biggart, Pathology of the Nervous System (Livingstone); Buzzard and Greenfield, Pathology of the Nervous System (Churchill); Freeman, Neuropathology (Saunders).

Technique:—Farber, The Post Mortem Examination (Charles Thomas); Mallory, Pathological Technique (Saunders).

BACTERIOLOGY AND IMMUNITY

Professor and Chairman of the Department.....E. G. D. MURRAY
Associate Professor.....FREDERICK SMITH
Assistant Professor.....T. E. ROY
Lecturers.....C. D. KELLY, W. H. MATHEWS*, C. R. BREWER
Demonstrators.....D. H. STARKEY, N. W. MCLELLAN, R. P. DOW, L. P. DEMERS, M. F. HOWIE
Sessional Lecturer.....J. A. ROMEYN

REQUIRED COURSES

All lectures and laboratory courses are given in the Department of Bacteriology (Pathological Institute).

*On military service.

COURSE 1. ELEMENTARY MEDICAL BACTERIOLOGY AND IMMUNITY.

Thirty-two lectures and 63 hours practical work. Third Term. Available to medical students on the satisfactory completion of their studies in Anatomy, Physiology, Histology and Biochemistry; also to students in their third year in Arts and Science reading for the B.Sc. Honours in Bacteriology, and to Graduate Students.

COURSE 1. S. ELEMENTARY GENERAL BACTERIOLOGY FOR ARTS AND SCIENCE STUDENTS.

COURSE 2. APPLIED MEDICAL BACTERIOLOGY AND IMMUNITY AND THE PROCESSES OF INFECTIOUS DISEASES.

20 Lectures and demonstrations. First and Second Terms. Available to Medical Students who have completed two years of clinical work and satisfied the Examiners in Course 1.

COURSE 3. BACTERIOLOGY AND IMMUNITY FOR HONOURS B.Sc. (daily throughout the year; available only for Honours students in their Fourth year). 160 lectures and 852 hours practical work.

(Full details of the courses can be obtained by application to the Registrar).

Text-books:—Hans Zinsser and G. Bayne-Jones, Textbook of Bacteriology (Appleton); R. Muir and J. Ritchie, Manual of Bacteriology (Oxford University Press); R. T. Hewlett and James McIntosh, Manual of Bacteriology (Churchill); T. J. Mackie and J. E. McCartney, Practical Bacteriology (Livingstone); J. W. Bigger, Handbook of Bacteriology (Bailliere Tindall & Cox); W. H. Park and A. W. Williams, Pathogenic Micro-Organisms (Lea & Febiger); Hans Zinsser, Resistance to Infectious Diseases (Macmillan); W. W. C. Topley and G. S. Wilson, The Principles of Bacteriology and Immunity (Edward Arnold & Co.); W. W. C. Topley, An Outline of Immunity (Arnold); M. Langeron, Precis de Microscopie (Masson & Cie); A. Calmette, L. Negri and A. Boquet, Manuel Technique de Microbiologie et Serologie (Masson & Cie); D. H. Bergey, Manual of Determinative Bacteriology (Williams & Wilkins). E. O. Jordan, Textbook of General Bacteriology (Saunders); Frederick P. Gay, Agents of Disease and Host Resistance (C. C. Thomas).

CURRICULUM FOR B.Sc. HONOURS IN BACTERIOLOGY

Prerequisite:—An aggregate standing of high second class must be obtained in the subjects of the First Year.

The Chairman of the Department should be consulted in selecting subjects to be studied in the Second and Third Years. The following subjects are suggested as suitable for the average student.

Second Year—General Zoology; Organic Chemistry; Histology; Elementary Physical Chemistry; Elementary Physiology; Colloid Chemistry.

Third Year—Biochemistry; Physiology; Elementary Medical Bacteriology; Parasitology, Mycology; Pharmacology.

Fourth Year—Bacteriology Course 3.

Students of Medicine who have done sufficiently well in their Medical Bacteriology and in their Medical studies in general will be admitted to Course 3.

PARASITOLOGY

Professor.....T. W. M. Cameron

Required Course

Human Parasitology: This course on the animal parasites of man (protozoa, helminths and arthropods) comprises about 45 hours of instruction. Special attention is given to parasites found in North America, and, in the practical class, each student examines all the important species as well as the lesions caused by them.

Winter Term—Two lectures and one laboratory period per week.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

Strathcona Professor and Chairman of the Department.....Grant Fleming
Associate Professor.....R. St. J. Macdonald
Assistant Professor (Mental Hygiene).....W. T. B. Mitchell
Assistant Professor.....Frank G. Pedley
Demonstrator (Mental Hygiene)..Baruch Silverman
Demonstrator.....R. Vance Ward

The instruction in Public Health and Preventive Medicine given to the medical undergraduates is designed to meet the requirements of the practitioner in Medicine.

The importance of Public Health and Preventive Medicine is kept before the student throughout his course. From an historical background are developed the needs and opportunities for preventive medicine, and its social implications.

The Department aims to correlate the teaching of the preventive aspects of medicine with the teaching of other departments in their special field. In addition, those phases of the subject that are not included elsewhere are covered, such as water, milk and food supplies, public health administration, hygiene of the school child, industrial hygiene and mental hygiene.

The course in Mental Hygiene, included in the teaching of the Department of Public Health and Preventive Medicine, attempts to give the student an understanding of what it is possible to do and of what is being done in the way of preventing nervous and mental diseases, delinquency and crime, and social failure. This implies a knowledge of what is normal in the way of behaviour responses at the different stages of the individual's development; of how we may recognize and deal with significant deviations from the average response; the factors underlying individual success and failure; the place and the means of introducing mental health principles into home, school, social and industrial situations.

The hygiene of the child of school age includes, for consideration, the chief points of a school health service, its scope, and the duties of the School Medical Officer, a post frequently undertaken by the general practitioner.

Industrial Hygiene deals with the application of the principles of preventive medicine to industry. The various factors which influence the health of work-people are discussed, and the means which may be taken to supervise their health and safety are considered.

A health study of the student's home town, or some other place acceptable to the Department, is required before the beginning of the final year. This study requires individual field work by each student.

Required Courses

1. Introduction to Public Health and Preventive Medicine.
   Spring term.....Professors Fleming and Mitchell.
2. Public Health Organization and Administration. (Including related community services).
   Winter term.....Professors Fleming, Macdonald and Dr. Silverman.
3. Mental Hygiene.
   Winter term.....Professor Mitchell.

4. PRACTICE OF PREVENTIVE MEDICINE, AND COMMUNICABLE DISEASE CONTROL.
Winter term.....Professors Fleming, Macdonald and Pedley.

5. DEMONSTRATIONS. (Chandler Health Centre).
Winter term.

6. HEALTH STUDY OF A CITY OR TOWN.
To be submitted during the month of October of the final year. The student is later required to review this study with a member of the staff.

Text-books and reference books:—

The General Field:—Mustard; Parkes and Kenwood; Rosenau; Park; Fitzgerald.

Industrial Hygiene:—The Health of the Industrial Worker, Collis and Greenwood; Industrial Health, Hayhurst, Emery and Kober; Industrial Poisons in the United States, Hamilton.

Mental Hygiene:—The Mental Hygiene of Childhood, White.

PHARMACOLOGY AND THERAPEUTICS

Professor and Chairman of the Department.....R. L. STEHLE
Associate Professor of Therapeutics.....D. S. LEWIS
Assistant Professor of Pharmacology.....K. I. MELVILLE
Lecturers in Therapeutics.....D. GRANT CAMPBELL, W. DE M. SCRIVER
Lecturer in Anæsthesia.....WESLEY BOURNE
Lecturer in Pharmacology.....A. M. FRASER

PHARMACOLOGY

The object of the course in pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

REQUIRED COURSES

1. PHARMACOLOGY. The action of drugs is considered on the basis of information derived by means of experimental methods and careful

clinical observation. The chemistry of the drugs studied is emphasized in order that the student may have a good foundation upon which to follow future developments of the subject intelligently.

Three lectures a week during the Spring Term supplemented by one conference and one demonstration a week.

The conference groups are limited to four students each.

Professors Stehle and Melville, and Dr. Fraser.

2. PHARMACOLOGICAL LABORATORY. The experiments are chosen to illustrate the lecture course.

Two periods (six hours) a week during the Spring Term.

Professors Stehle and Melville, and Dr. Fraser.

THERAPEUTICS

The teaching of therapeutics will be closely linked with that of medicine.

REQUIRED COURSES

3. PHARMACY AND PRESCRIPTION WRITING. Five lectures and five laboratory periods during the Autumn term.

Dr. Scriver.

4. THERAPEUTICS: Didactic Instruction. A series of 20 lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

4a. THERAPEUTICS: Theatre Lectures. Fifteen clinical lectures to be given in the hospitals during the year in conjunction with the teaching of the Department of Medicine. Dr. Lewis and Associates.

Text-books in Pharmacology. Cushny, Sollmann, Clark. *Text-books in Therapeutics*, Beckman, Lyon, Reiman.

OPTIONS

Suitably prepared students may undertake research at any time.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies.

MEDICINE

Professor and Chairman of the Department.....Jonathan C. Meakins

Professor.....L. C. Montgomery*

Associate Professors.....E. H. Mason, I. M. Rabinowitch*

Assistant Professors.....C. C. Birchard, J. S. L. Browne, J. Kaufmann, D. S. Lewis, C. F. Moffatt, J. B. Ross

Lecturers.....C. R. Bourne, G. R. Brow, D. G. Campbell, Keith Gordon,* R. H. M. Hardisty, A. T. Henderson, J. F. McIntosh, D. W. McKechnie, E. S. Mills, W. de M. Scriver

Demonstrators.....L. J. Adams, J. O. W. Brabander, Hugh Burke, Gordon A. Copping,* W. W. Eakin, Neil Feeney, A. F. Fowler, C. W. Fullerton, Guy Hamel, E. S. Harding, C. R. Joyce, W. R. Kennedy, H. E. MacDermot, J. F. MacIver, J. Wendell MacLeod, J. L. D. Mason, D. L. Mendel, E. E. Robbins, H. N. Segall, Colin Sutherland, G. D. Taylor, C. J. Tidmarsh, R. Vance Ward

Assistant Demonstrators.....D. Barza, R. C. Bennetts, J. G. Howlett, J. Kilgour, L. Lowenstein, J. F. Meakins,* Howard S. Mitchell,* S. Ortenberg, S. L. Richardson, F. McIver Smith, A. T. Thom, S. R. Townsend

PSYCHIATRY

Associate Professor.....W. T. B. Mitchell

Clinical Professor.....C. A. Porteous

Clinical Professor of Neurology.F. H. Mackay

Lecturers in Neurology.....A. W. Young, N. Viner

Demonstrators.....T. E. Dancey, A. A. Mackay, G. E. Read, B. Silverman, C. H. Skitch

---

*On military service.

DERMATOLOGY

Clinical Professors ..... P. Burnett, J. F. Burgess
Lecturer ..... L. P. Ereaux
Demonstrators ..... B. Usher, F. E. Cormia
Assistant Demonstrator ..... Donald S. Mitchell

CLINICAL THERAPEUTICS

Associate Professor ..... D. S. Lewis
Lecturers ..... D. Grant Campbell, W. de M. Scriver
Lecturer in Physio-Therapy ..... Norman Brown
Demonstrator ..... Guy Fisk

Foreword on the Courses in Medicine. The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease; to afford a knowledge of the technique and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy, and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

The courses in internal medicine and its various branches are so arranged as to give the individual student as much independence as possible in his selection of his instructors and time and place of his required and elective courses. The University lectures and clinical lectures are open to students of all years. The student, therefore, may within wide limits determine the period and scope of his instruction. The final examinations may cover any portion of the realm of internal medicine and its various branches of which the examiners may deem it proper that a graduating student should be cognizant.

Required Courses

1. A course of University lectures on Medicine and Surgery with integration of Physiology, Biochemistry, and Anatomy. This course

is designed to review and correlate MEDICINE in its broadest sense in regard to etiology, diagnosis and treatment. It commences with the last term of the second year and continues throughout the third year. It is given in the University Medical Building by members of the Departments of Medicine and Surgery.

2. Courses of lectures will be given in Psychiatry and Therapeutics on two afternoons a week during the autumn and winter terms.

3. Clinical lectures in General Medicine. A course of clinical lectures will be delivered throughout the autumn, winter, and spring terms, on two days a week. The exact hour in the different institutions will be announced from time to time. These clinical lectures will be given in the Royal Victoria Hospital and the Montreal General Hospital, by Professors Meakins, Montgomery and Assistants.

4. This course will cover physical examination and abnormal physical signs, the methods of history-taking, and systematic description of the various systems in a logical order. Its objective will be to prepare students for subsequent clinical and bedside work. It will be given in the spring term (16 weeks) of the second year and will occupy two periods a week of two hours each, from 10.15 to 12.15, to groups of students, at the Royal Victoria Hospital and the Montreal General Hospital.

5. A course in clinical microscopy will be given in the winter term only. There will be two laboratory periods a week, from 2 to 4 p.m., on Mondays and Fridays, in the Medical Building. This course will be organized so as to give instruction and practice in microscopy as applied to clinical medicine. Dr. MacIntosh and Assistants.

6. A course in clinical medicine with case reporting and bedside clinics will be given in the autumn, winter and spring terms, to groups of students of the third year at the Royal Victoria Hospital and Montreal General Hospital. Each course will occupy five days a week from 9 a.m. to 3.45 p.m.

Professors Meakins, Montgomery and Assistants.

7. A clinical course in Mental Medicine will be given in the autumn, winter and spring terms. This course will have the following divisions:

(a) A weekly theatre clinic on mental hygiene, neuroses, psychoses, and border line cases given during the final year at the Montreal Neurological Institute.

Professor W. T. B. Mitchell and Assistants.

(b) A certificate of one week's attendance at a Mental Hospital and the submission of three case reports. The attendance may be at any hospital approved by the department.

8. A clinical course in dermatology will be given in the autumn, winter and spring terms of one period a week at the Royal Victoria and Montreal General Hospitals.....Drs. Burnett and Burgess.

9. A course in clinical therapeutics will be given in the autumn, winter, and spring terms, of one period a week, one and one-half hour's duration, at the Royal Victoria Hospital and the Montreal General Hospital, by Professor Lewis and Dr. D. Grant Campbell.

10. PHYSIO-THERAPY. Three lectures and three periods of group instruction at times to be arranged.....Drs. Lewis and Brown.

11. In the student's final year he becomes virtually a member of the Externe Staff of the teaching hospitals. He may elect to be allotted to the various services in the hospital in the capacity of clinical clerk, participating in the keeping of records, diagnosis, and treatment of patients in the wards and Out-Patient Department, and the laboratory duties. He will accompany the physicians on their daily rounds, attend autopsies, and report on them to his teachers.

MEDICAL JURISPRUDENCE AND TOXICOLOGY

A series of twenty lectures.....Professor Rabinowich.

MEDICAL JURISPRUDENCE: *Definition and scope:* obligations of the physician as a citizen. Ethics and Law in the conduct of medical practice. *Witnesses:* Ordinary. Expert. Skilled. *Medical Evidence:* Documentary. Oral. Experimental. Professional secrecy. Privileged communications. Rules regarding medical witnesses in Court. *Legal aspects of physical examinations. Malpractice:* Criminal. Civil, Negligence. Recklessness. "Reasonable care and judgment." *Identification of living persons:* Scars. Tattoo marks. Hair dyes. Dactylography. *Wounds:* Types. Ante- and post-mortem examination. Evidence furnished by wounds—Accident. Suicide. Murder. *Medico-legal aspects of blood examinations. Death:* Definitions. Conditions simulating death. Signs of death. Medico-legal forms of death. Estimation of length of time by post-mortem phenomena—Cooling. Hypostasis. Rigor. Decomposition. Modifying factors. Adipocere. Mummification. Medico-legal aspects of embalming and cremation. Presumption of death. Presumption of survivorship. Identification of the dead—Age. Sex. Stature. Teeth. Certification. *Medico-legal relations of sexual functions:* Impotence. Sterility. *Pregnancy. Abortion.* Natural. Criminal. Justifiable. *Birth:* Certification. Legitimacy. Paternity. *Infanticide.* Necessary proof of live birth. *Sexual offenses:* Rape and defloration. Examination of victim and accused. Unnatural offenses. *Mental disorders:* Testamentary capacity. Criminal responsibility. Certification. Medico-legal aspects of *alcoholism.* Criteria of drunkenness.

TOXICOLOGY: *Occurrence of poisoning:* Foods. Industrial. Clothes and cosmetics. Patent medicines. Therapeutic. *Classification of poisons. Modes of action.* Modifying factors—Mode of entry. Amount. Age. Habit. Tolerance. Idiosyncrasy. Physical condition of victim. *Diagnosis of acute poisoning:* Similarity between poisoning and disease. Rules for diagnosis. *Treatment:* General. Specific. *Medico-legal aspects of poisoning*—Accident. Suicide. Murder.

References:—Principles and Practice of Medical Jurisprudence—Taylor. Legal Medicine and Toxicology—Webster. Text-book of Forensic Medicine and Toxicology—Buchanan. Medical Jurisprudence and Toxicology—Glaister. Forensic Medicine—Sydney Smith. Forensic Medicine and Toxicology—F. J. Smith.

ELECTIVE COURSES

12. PHYSIO-THERAPY (PRACTICAL): A course of lectures and demonstrations dealing more fully with the application of physical methods to the treatment of disease. Dr. Brown.

13. A course of lectures on recent advances in Medicine and its allied branches is given once a week throughout the session.

Elective courses for advanced work are offered in the following subjects: Neurology, psychiatry, dermatology, clinical pathology, cardiology, hæmatology, diseases of the lungs, gastro-intestinal diseases, et cetera. The details of these elective courses will be announced at the beginning of each session.

TEXT AND REFERENCE BOOKS

Clinical Methods and Physical Diagnosis:—Todd, "Clinical Methods"; Flint, "Physical Diagnosis"; Major, "Physical Diagnosis" Murray, "Examination of the Patient"; Gradwohl, "Clinical Laboratory Methods and Diagnosis"; Hutchison and Hunter, "Clinical Methods"; Cabot, "Physical Diagnosis"; Department of Medicine, McGill University, "Guide to Medical Case Reporting".

General Medicine:—McLeod, "Physiology in Modern Medicine"; Best and Taylor, "Physiological Basis in Medical Practice"; Meakins "Practice of Medicine"; Cecil, "Text Book of Medicine"; Davis, "Cyclopedia of Medicine"; Rolleston, "The British Encyclopaedia of Medical Practice"; Lewis, "Diseases of the Heart"; White, "Heart Disease"; Norris and Landis, "Diseases of the Chest"; Eusterman and Balfour, "Stomach and Duodenum"; Hurst and Stuart, "Gastric and Duodenal Ulcer"; Joslin, "Diabetic Manual"; "Treatment of Diabetes Mellitus"; McLester, "Nutrition and Diet in Health and Disease"; Lusk, "Science of Nutrition"; Peters and Van Slyke, "Quantitative Clinical Chemistry".

Vol. 1, Interpretations; DuBois, "Basal Metabolism in Health and Disease"; Kurzrok, "The Endocrines in Obstetrics and Gynæcology"; Clendening, "Methods of Treatment"; "Pharmocopoea of the Teaching Hospitals".

Psychiatry:—White, "Outlines of Psychiatry"; Henderson and Gillespie, "A Text of Psychiatry" (1936); Bernard Hart, "The Psychology of Insanity".

Neurology:—Brock, "The Basis of Clinical Neurology"; Cobb, "A Preface to Nervous Diseases"; Grinker, "Neurology".

Dermatology:—Walker "Introduction to Dermatology"; MacLeod, "Diseases of the Skin"; Sutton and Sutton, "Diseases of the Skin"; Ormsby, "Diseases of the Skin".

PÆDIATRICS

Professor and Chairman of the Department	R. R. STRUTHERS
Associate Professor	S. GRAHAM ROSS
Assistant Professors	A. GOLDBLOOM L. LINDSAY
Lecturers	A. K. GEDDES ALAN ROSS JESSIE BOYD SCRIVER H. P. WRIGHT
Demonstrators	P. N. MACDERMOT E. V. MURPHY S. J. USHER
Assistant Demonstrators	H. L. BACAL B. BENJAMIN

REQUIRED COURSES

1. LECTURE COURSE: A series of thirty-five clinical lectures on pœdiatrics. Once a week during the Autumn, Winter and Spring terms (as announced) at the Medical Building or at the Children's Memorial Hospital.

   Professor Struthers and Assistants.

2. INFECTIOUS DISEASES: A series of demonstrations to groups of students on the ordinary infectious diseases is given at the Alexandra Hospital.

3. DISEASES OF THE NEW BORN—Royal Victoria Montreal Maternity Pavilion.

4. CLINICAL PÆDIATRICS: During the final year the class is divided into groups, each group devoting five weeks to the study of the diseases of childhood, including—

   (a) Normal Infant Feeding, Care and Development—Montreal Foundling and Baby Hospital.

(b) General Pædiatrics—Children's Memorial Hospital.

(c) Infectious Diseases—Alexandra Hospital.

Text-books:—Holt and McIntosh, "Diseases of Infancy and Childhood"; Griffith and Mitchell, "Diseases of Infants and Children"; Porter and Carter, "Management of the Sick Infant and Child"; Brown and Tisdall, "Common Procedures in Pædiatrics"; Wright, "Essentials of Infant Feeding and Pædiatric Practice"; Goldbloom, "Care of the Child"; Still, "Common Disorders and Diseases of Childhood"; John Thomson, "Clinical Study and Treatment of Sick Children."

Reference Books:—Brenneman, "Practice of Pædiatrics" (4 volumes); Parsons and Barling, "Diseases of Infancy and Childhood" (2 volumes); Langdon, "Home Guidance for Young Children"; "Abt's Pædiatrics" (8 volumes); Kanner, "Child Psychiatry".

NEUROLOGY AND NEUROSURGERY

Professor and Chairman of the Department	Wilder Penfield
Associate Professor of Neurology	Colin Russel*
Associate Professor of Neurosurgery	William Cone*
Clinical Professor of Neurology	F. H. Mackay
Assistant Professor of Neurosurgery	A. R. Elvidge
Lecturers in Neurology	Donald McEachern F. McNaughton J. N. Petersen N. Viner A. W. Young
Lecturer in Neuropsychiatry	Miguel Prados
Lecturer in Neurological Roentgenology	A. E. Childe*
Lecturer in Neurological Electrography	Herbert Jasper
Lecturer in Clinical Psychology	Molly Harrower
Lecturer in Neurosurgery	T. C. Erickson
Lecturer in Neuropathology	Karl Stern
Demonstrator in Neurology	J. Kershman
Assistant Demonstrator in Neurosurgery	Robert Pudenz
Assistant Demonstrator in Neuropathology	Guy Odom
Research Fellows	James T. Daniels Allister I. Finlayson Richard W. Finner S. Humphreys* O. W. Stewart* Roy L. Swank

The Department of Neurology and Neurosurgery co-operates intimately with the Departments of Medicine and Surgery in their regular teaching.

*On military service.

In addition the following elective courses are offered:

1. Case Presentations. Diseases of the Nervous System.

Outpatient Department, Royal Victoria Hospital, Tuesdays at 3.00 p.m.

Professor Penfield.

2. Fundamentals of Neurology (Neuro-Anatomy, Neuro-Physiology, Biological Chemistry and Roentgenology).

Neurological Institute, Tuesdays at 5 p.m.

Drs. Petersen, Elvidge, McEachern, Childe, Jasper, McNally, Boldrey, Kershman, McNaughton and Erickson.

3. Introduction to the study of Psychological Medicine. 5 lectures. Neurological Institute. Dr. Prados.

4. Advanced Neuroanatomy (Anatomy 4). Construction of Model of Human Brain. Neurological Institute. Monday and Tuesday 8-10 p.m. Drs. McNaughton, Petersen and Kershman.

SURGERY

Professor of Urology and Chairman of the Department of Surgery.....F. S. PATCH

Associate Professors.....F. B. GURD, C. K. P. HENRY, F. E. McKENTY

Assistant Professor.....J. C. ARMOUR

Lecturers.....H. L. DAWSON, H. M. ELDER*, R. R. FITZGERALD, G. A. FLEET, J. G. W. JOHNSON, C. A. McINTOSH*, L. H. McKIM, G. GAVIN MILLER, D. E. ROSS, A. J. STEWART, F. J. TEES, A. L. WILKIE

Demonstrators.....S. G. BAXTER, E. M. COOPER, J. C. LUKE, S. J. MARTIN,* H. S. MORTON,* H. F. MOSELEY, H. G. PRETTY, A. ROSS, P. G. ROWE

Assistant Demonstrators.....F. D. ACKMAN, H. A. BAXTER, H. S. DOLAN, G. A. HOLLAND, G. D. LITTLE, J. C. SUTTON, D. W. WEBSTER

*On military service.

UROLOGY

Clinical Professor . . . . . E. C. SMITH
Lecturer . . . . . R. E. POWELL
Demonstrators . . . . . A. B. HAWTHORNE, M. I. SENG, A. M. J. TANNEY
Assistant Demonstrators . . . . M. RATNER, R. G. REID

ORTHOPAEDIC SURGERY

Clinical Professors . . . . . J. A. NUTTER, W. G. TURNER
Lecturers . . . . . W. J. PATTERSON, N. T. WILLIAMSON
Assistant Demonstrators . . . . J. G. PETRIE*, J. G. SHANNON*

ANÆSTHESIA

Lecturers . . . . . D. LEIGH, C. C. STEWART, F. A. H. WILKINSON
Assistant Demonstrator . . . . . L. W. RICE

RADIOLOGY

Lecturers . . . . . E. C. BROOKS, W. L. RITCHIE
Demonstrator . . . . . J. W. MCKAY
Assistant Demonstrators . . . . W. W. BRYAN, E. M. CRAWFORD

Instruction in surgery and the surgical specialties is given in the form of didactic lectures, amphitheatre clinics and demonstrations and group teaching in the wards and out-patient department of the teaching hospitals. The course is graded. The student must qualify in each year before proceeding to the next.

REQUIRED COURSES

Second Year. Surgical teaching begins in the spring term (16 weeks) of the Second Year. In this year special attention is directed to the instruction and training of the student, in proper methods of physical examination, from the surgical point of view. At the same time, instruction is given in methods of surgical technique, and the student is introduced to the simpler types of fractures and dislocations.

*On military service.

1. A combined lecture course in collaboration with the Department of Medicine, Neurology, Neuro-Surgery and Radiology, three days a week during the spring term.
2. Amphitheatre clinics, alternately in the Montreal General and Royal Victoria Hospitals, two days a week, during the term.
3. Group classes in the wards of the Montreal General and Royal Victoria Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

Third Year. The student comes into a more intimate contact with the patient, and in the surgical trimester is assigned cases, writes case reports, acts as dresser, assists at operations, etc.

1. The combined lecture course in collaboration with the Departments of Medicine, Neurology and Neuro-Surgery and Radiology is continued, two days a week, throughout the year. In this course, lectures in Orthopædic Surgery, Neurological Surgery and Urology are included.
2. Amphitheatre clinics and demonstrations in the Montreal General and Royal Victoria Hospitals, two days a week throughout the year.
3. Group ward classes.
4. Case reporting. Patients are allotted to students who act as reporters, dressers, assistants at operations, etc.
5. Clinico-pathological conferences, one period a week, jointly with the Department of Pathology.
6. A course in applied anatomy, jointly with the Department of Anatomy, ten periods.

Fourth Year. During the surgical trimester of this year, the student devotes his entire time to surgery and its allied specialties.

1. Amphitheatre clinics and demonstrations at the Montreal General and Royal Victoria Hospitals, two days weekly.
2. Group ward classes.
3. Case reporting.
4. Clinico-pathological conferences, jointly with the Department of Pathology.

Surgical Diseases of Children. During the trimester in which the students are assigned to pædiatrics at the Children's Memorial Hospital, instruction in the surgical diseases of children is given by means of amphitheatre clinics and group ward classes.

ORTHOPÆDIC SURGERY.

Third Year. Ten lectures are given in the combined lecture course.

Fourth Year. Amphitheatre classes, 6 periods.

Ward classes are given once a week during the surgical trimester, of the Fourth Year.

UROLOGY.

Third Year. Ten lectures are given in the combined lecture course.

Fourth Year. Amphitheatre classes, 6 periods.

Ward classes are given twice weekly during the surgical trimester of the Fourth Year.

Clinico-pathological conferences, jointly with the Department of Pathology, once a week during the surgical trimester of the Fourth Year.

Instruction in venereal diseases is given in the out-patient department, once a week, during the surgical trimester.

ANAESTHESIA. Instruction in anæsthesia is given by the Department of Pharmacology and Clinical Therapeutics. Students are given practical instruction in the administration of anæsthetics, during their surgical trimesters in the Third and Fourth Years.

Close correlation is maintained with the Departments of Anatomy and Physiology as well as with the concurrent instruction in Medicine, Pathology and Bacteriology.

The course is graded and the student is required to qualify in each grade before he is permitted to advance to succeeding grades.

Text-books:—

1. *General Surgery:* John Homans, "A Text-book of Surgery"; Choyce, C. C., "A System of Surgery"; Gask and Wilson, "Surgery"; Hamilton Bailey, "Demonstrations of Physical Signs in Clinical Surgery"; Christopher Cole and Elman; Romanis and Mitchener; Handfield, Jones and Porrett, "The Essentials of Modern Surgery"; Rose and Carless, "Manual of Surgery"; Pack and Livingston's "Treatment of Carcinoma"; Christopher's "Minor Surgery".

2. *Emergency Surgery:* Sluss, John W., "Manual of Emergency Surgery."

3. *Surgical Anatomy:* McGregor, "Synopsis of Surgical Anatomy"; Treves, "Surgical Applied Anatomy."

4. *Fractures and Dislocations:* Scudder, Charles L., "Treatment of Fractures"; Wilson and Cochrane, "Fractures and Dislocations." Magnuson's "Fractures"; Stimson's "Manual of Fractures and Disloca-

itons"; Wilson's "Management of Fractures"; Key and Conwell's "Fractures and Dislocations"; Watson Jones "Fractures and other Bone and Joint Injuries".

5. *Case Reporting:* White, J. Renfrew, "The Clinical Examination of Surgical Cases."

6. *Urology:* Eisendrath and Rolnick's "Urology"; Herman's "Practice of Urology"; Hinman's "Principles and Practice of Urology"; Keyes and Ferguson's "Urology"; Young's "Practice of Urology."

7. *Orthopædic Surgery:* Whitman's "Orthopædic Surgery"; Jones, "Orthopædic Surgery of Injuries"; Jones and Lovett, "Orthopædic Surgery"; Mercer's "Orthopædic Surgery"; Willis Campbell's "Orthopædic Operations"; Sever's "Handbook of Operative Surgery"; Steindler's "Orthopædic Operations."

OBSTETRICS AND GYNÆCOLOGY

Professor and Chairman of the Department . . . . . J. R. Fraser
Associate Professor . . . . . A. D. Campbell
Clinical Professor . . . . . J. W. Duncan
Assistant Professor . . . . . W. A. G. Bauld
Lecturers . . . . . G. C. Melhado, Ivan Patrick
Demonstrators . . . . . Douglas Gurd, J. Stewart Henry, Eleanor Percival, N. W. Philpott, C. V. Ward*
Clara Law Fellow and Demonstrator . . . . . P. J. Kearns
Assistant Demonstrators . . . . . K. T. MacFarlane, G. B. Maughan, D. W. Sparling*
A. A. Brown Fellow . . . . . F. D. Johnson
Teaching Fellow . . . . . W. R. Foote

The entire course is arranged on the basis of imparting a practical knowledge of Obstetrics, Gynæcology and the Care of the New-born. Throughout all trimesters the value of intimate contact with the patient in the normal and the pathological state is stressed.

The privilege of serving as an interne in the hospital for two weeks treating the patients from the time of admission till discharge from hospital is an ideal arrangement. Each student serves in the ante-natal clinics in the city.

*On military service.

OBSTETRICS

Required Courses

1. An introductory course of sixteen lectures on the fundamental principles of the subject dealing with the Anatomy, Embryology, Physiology and Pathology of the Pelvic Organs.

   Medical Building. One lecture a week—Spring Term.

   Professor Fraser.

2. Clinical instruction during the year in the Royal Victoria Montreal Maternity Pavilion, including the conduct of labour and the puerperium in case room and wards, together with ante-natal care in the out-patient department.

   Autumn, Winter and Spring Terms.

3. Special courses in obstetrical palpation and on the manikin daily throughout the session with the aid of models, diagrams, lantern slides and moving pictures.

   Autumn, Winter and Spring Terms.

4. Clinical Conferences thrice weekly in the theatre throughout the year for the entire class, where living cases are presented illustrating the more important obstetrical conditions.

   Autumn, Winter and Spring Terms.

5. Group Instruction. The teaching in the final year is conducted entirely by senior teachers.

   Small groups of students are instructed in the Wards, Case Rooms and Out-patient Department in methods of examination, problems of delivery and the principles of treatment.

6. Lecture Demonstrations in the theatre are held daily during each term on the following subjects:—

   A. Normal Labour.....Dr. Melhado.

   B. Puerperal Infection.....Dr. A. D. Campbell.

   C. Hæmorrhages of Pregnancy. Labour and the Puerperium.
   Professor Duncan.

   D. Toxæmia of Pregnancy.....Dr. Johnson.

   E. Dystocia.....Professor Bauld.

7. Care of the New-born. Drs. Struthers & Ross.

   The clinical demonstration once weekly throughout the year by the Pædiatrician in charge of the new-born, is intended to provide a clear and concise survey of the physiology and pathology of the new-born. Particular emphasis is laid on infant feeding and neonatal disease.

8. The Staff Conference held once a week is arranged to give a complete account of the work of the hospital.

NOTE: Rooms are provided in the new pavilion where the students may reside, in groups of six, for a period of two weeks. During his period of interneship the student will under supervision deliver patients both in hospital and at their homes, and will undertake the medical care of mother and child during the puerperium.

GYNÆCOLOGY

1. Theatre clinics and bedside instruction in the Royal Victoria and Montreal General Hospitals. . . . Professor Fraser, Dr. Campbell and Staff.

2. A special course on Gynæcological Pathology. . . . . Dr. P. J. Kearns.

3. Methods of Gynæcological examination, diagnosis and treatment in the outdoor departments.

4. A special course of instruction, once a week, throughout the year in the cancer clinic on methods of diagnosis and treatment of cancer, dealing especially with Radium and X-Ray. . . . . Professor Bauld and Staff.

TEXT AND REFERENCE BOOKS

OBSTETRICS.

(1)	De Lee	Principles and Practice of Obstetrics.
(2)	Stander	Text book on Obstetrics.
(3)	Ten Teachers	Midwifery.
(4)	Harper	Clinical Obstetrics.
(5)	Bourne	Synopsis of Midwifery and Gynæcology.
(6)	Johnson, R. W.	Text book of Midwifery.
(7)	Bland	Practice of Obstetrics.
(8)	Miller, J.	Manual of Obstetrics.
(9)	Appleton	Obstetrical and Gynæcological Monographs.
(10)	Peterson	Demonstration Course in Obstetrics.
(11)	Irving	Text book on Obstetrics.
(12)	Beck	Obstetrical practice.
(13)	Adair	Obstetrics.

GYNÆCLOLOGY.

(1)	Graves	Text book of Gynæcology.
(2)	Curtis	Text book of Gynæcology and System of Gynæcology and Obstetrics.

(3) Ten Teachers	Diseases of Women.
(4) Monroe Kerr	Gynæcology.
(5) Blair Bell	Principles of Gynæcology.
(6) Kelly, Howard	Text book of Gynæcology.
(7) Goodall	Puerperal Infection.
(8) Crossen	Gynæcology.

OPHTHALMOLOGY

Professor and Chairman of the Department.....S. H. McKee
Lecturer.....J. A. MacMillan
Demonstrators.....K. B. Johnston, Stuart Ramsay, J. Rosenbaum, R. J. Viger
Assistant Demonstrators.....B. Alexander, J. V. V. Nicholls

The undergraduate work in Ophthalmology, which is designed to meet the needs of a well-trained general practitioner, embraces the following courses:—

1. Routine Examination of the Eye.

In this work the class in small groups is drilled in the various tests in the routine examination of the eye, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum outlay for equipment. Instruction in the use of the ophthalmoscope and familiarization with the appearance of the normal fundus of the eye are an important feature of this preliminary course.

Five hours.....Professor McKee and members of the Staff.

2. Lecture Demonstrations.

This course, variously illustrated, covers the general principles and the systematic side of the subject. It has been designed to furnish a background of essential concepts for the clinical work of the Final Year.

Ten hours.....Professor McKee.

3. Clinical Ophthalmology.

In the Final Year, the entire available time is devoted to an intensive study of the ocular problems that are of greatest moment in general practice—the external diseases of the eye, and the main ophthalmoscopic findings in systematic disorders and affections of

the nervous system; with practical lessons in ophthalmic nursing and first aid. This work is conducted in the ophthalmic clinics and wards of the Montreal General and Royal Victoria Hospitals.

Professor McKee and Staff.

Text-books:—Parsons, May, Swanzy, De Schweinitz, Fuchs.

OTO-LARYNGOLOGY

Assistant Professors..... D. H. Ballon, G. E. Hodge

Lecturers..... W. J. McNally, R. P. Wright*

Demonstrators..... K. O. Hutchison, B. F. MacNaughton, G. E. Tremble

Assistant Demonstrators.... A. O. Freedman, G. E. M. Hilton, E. E. Scharfe*, E. A. Stuart

Instruction in Oto-Laryngology is given to students of the third and fourth years and is designed to meet the needs of the general practitioner.

The clinical courses are carried on in the wards and out-patient departments of the Montreal General and the Royal Victoria Hospitals, where the large clinics afford the students ample opportunity of receiving practical instruction. In these two hospitals there are about fifty beds set apart for this specialty.

The practical work is conducted in small groups so that personal instruction and supervision are given to each student.

Medical motion pictures are used as a supplement to the class-room lecture and clinical demonstration.

Third Year:

A course of 20 demonstrations is given to students of the Third Year. These demonstrations deal with the normal anatomy of the ear, nose and throat, and with methods of examination. The students are required to examine the patients and recognize the normal and common pathological conditions of the ear, nose and throat. Ward rounds are made to illustrate the pre-and post-operative methods of treatment.

Lecture Course:

Ten practical illustrated lectures are given to the whole class. Special emphasis is laid on those surgical procedures which the general practitioner should be capable of performing.

*On military service.

Instruction will be given on the practical value of the bronchoscope in the diagnosis and treatment of diseases of the tracheo-bronchial tree and the œsophagus.

FOURTH YEAR:

Ten clinical demonstrations are given in the out-patient departments and wards of the hospitals. The students are expected to examine the patients and report on them. Differential diagnosis and treatment is stressed.

Text and Reference Books:—Sir St. Clair Thomson: Diseases of the Nose and Throat; A. Logan Turner: Diseases of the Nose, Throat and Ear; Chevalier Jackson and G. M. Coates: The Nose, Throat and Ear and Their Diseases; Philip O. Kerrison: Diseases of the Ear; Chevalier Jackson: Bronchoscopy, Oesophagoscopy and Gastroscopy; D. H. Ballon: Chapters on Bronchoscopy and Oesophagoscopy in Surgical Diseases of the Chest by Evarts A. Graham, J. J. Singer, Harry C. Ballon.

GRADUATE INSTRUCTION

1. Any medical graduate of McGill University who so desires may attend any of the regular undergraduate clinics. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.

2. Special graduate work is offered in every department, both in the laboratories and in the clinics. Applications in writing, addressed to the chairman of the department concerned, must state the qualifications and experience of the applicant and the nature of the work he desires to do. The minimum fee is $30.00 a term (10 weeks).

3. COURSE FOR DIPLOMA IN PUBLIC HEALTH: This course is specially designed as a thorough training for medical men undertaking the duties of a Medical Officer of Health.

The duration of the course is at least eight months (October 1st to May 31st).

The curriculum is as follows:—

(a) A course dealing in a comprehensive manner with the general principles of Public Health and Preventive Medicine.

(b) A course covering health organization, legislation and administration.

(c) A course on vital statistics and records, including practical work.

(d) Courses in bacteriology and parasitology, including laboratory work.

(e) Field work: Arrangements made with the Department of Health, Montreal, and the voluntary health agencies of Montreal.

Seminars are held throughout the year. Arrangements are made for special courses in such subjects as tuberculosis, venereal disease, etc., and for special visits.

Examinations are written, oral and practical.

The inclusive fee for the course is $155, for British subjects and $205, for non-British subjects.

4. Course for Diploma in Veterinary Public Health: A course leading to a Diploma in Veterinary Public Health (D.V.P.H.) has been organized under the Department of Public Health and Preventive Medicine, and is open to graduates of recognized schools of veterinary medicine.

The purpose of the course is to prepare veterinarians to render better service in the fields of public health, particularly in the control of food and milk supplies, into which they are now being brought.

The work occupies one academic year, with approximately 36 hours of instruction (lectures and laborarory work) per week.

The curriculum includes Public Health, Physiology, Dairy Bacteriology, Nutrition, Milk and Meat Hygiene, Epizootology and Public Health Parasitology.

The tuition fee for the course is $150.

BUILDINGS

THE MEDICAL BUILDING

This Building, erected in 1911, at a cost of over $600,000, contains the Offices of Administration, the Medical Library (with its 50,000 volumes, its Reading Rooms and their complete set of technical journals). the Departments of Anatomy, Public Health and Preventive Medicine, and the Museums of Anatomy, Pathology and Ethnology. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department. The Laboratories for Histology and Embryology have excellent facilities, with space for 120 students, and smaller rooms for research.

THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over $500,000, this building was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184 feet by 60 feet—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

Adjacent to and connected with the Biological Building is the Laboratory for Experimental Surgery. This two-storey building contains two operating units with sterilization and anæsthetic rooms, as well as commodius quarters for the storage of animals and their care during convalescence. The equipment is very complete and includes a refrigerator plant and kitchen.

THE PATHOLOGICAL INSTITUTE

This building, which was opened for use in October, 1924, and which is connected with the Royal Victoria Hospital by a tunnel, is situated on the Northeast corner of University Street and Pine Avenue, adjacent to the Medical Building. It provides accommodation for the departments of Pathology, Bacteriology and Medical Jurisprudence, and includes a Pathological Museum and museum workshops. It combines under one roof, quarters for teaching and research in these departments, both for the University and for the Royal Victoria Hospital. From the latter is drawn chiefly its material. It was constructed at a cost of $460,000; is of Montreal limestone; its main front is 242 feet long; the north end is 77 feet wide and the south end 60 feet. It provides ample facilities and equipment for instruction of students, and the research work of the Staff.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neuro-surgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine. In addition to wards, operating rooms, laboratories, etc., the building provides complete residential accommodation for six research fellows.

HOSPITALS

Few medical schools on this Continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical School is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thus made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:—

Royal Victoria Hospital.
Montreal General Hospital.
Children's Memorial Hospital.
Foundling Division, Children's Memorial Hospital.
Alexandra Hospital for Infectious Diseases.
Verdun Protestant Hospital.
Royal Edward Institute.
The Royal Victoria Montreal Maternity Hospital.

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical School. These affiliated hospitals contain over 2,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University building, is a general hospital for acute diseases and contains 709 beds and 110 cribs. During 1939 it cared for 14,098 cases, while in its out-door department 75,389 cases were treated. Many new additions have been made in the Hospital. A modern University Medical Clinic was established in 1924.

There were 210 post-mortems.

The number of resident physicians is 45.

The Royal Victoria-Montreal Maternity Pavilion, with 214 beds for obstetrical and gynæcological cases, was opened in June, 1926. In this institution there are 117 teaching beds and an organized out-patient service which is of the greatest benefit to the undergraduate student. During the year 1939 the obstetrical service cared for 2,004 confinements in the Hospital and 247 in the Out-patient Service. In the gynæcological section, 1,554 cases were admitted during the year.

There are nine resident physicians.

THE MONTREAL GENERAL HOSPITAL, CENTRAL AND WESTERN DIVISIONS, is a general hospital for the treatment of acute diseases and contains 600 beds In 1939 there were 11,727 admissions. The number of patients' visits to the Outpatient Department of both Divisions totals 219,055. Many modern additions to the original buildings have been made permitting increased bed capacity. There is a large biochemical laboratory completely equipped for the complete investigation of the metabolic aspects of disease and in conjunction with this department there is an outpatient clinic, one of the largest on the continent, for the treatment of diabetes mellitus. There were 306 autopsies performed which represents 94% of all autopsies obtainable, i.e., other than coroner's cases, etc. Post Mortem and surgical material at both Divisions is now used for teaching, and clinical teaching is carried out in the public wards at both Divisions. The number of resident physicians is 52. The Dental Clinic of the University completed in 1921 is located at the Central Division and has 50 dental chairs with a large and varied clientele. The number of visits to the Dental Clinic for the year 1939 was 24,761.

THE CHILDREN'S MEMORIAL HOSPITAL has 300 public beds, and, in 1939, admitted 3,455 patients. The attendance at its out-door department totalled over 29,850 visits. This hospital admits all classes of cases of disease in children, and enables the students to get a broad concept of pædiatrics. Of special interest are the newly-built wards with cubicles, the Department of Remedial Gymnastics, the Open-air Pavilions, and the well-equipped out-patient service.

There were 56 autopsies during the year, which represents 85.7% of all deaths.

The number of resident physicians is 13.

A short post-graduate course lasting one week is offered during the month of September, before the beginning of the regular session, when clinics, lectures and demonstrations on the more important phases of pædiatrics are given.

THE MONTREAL FOUNDLING AND BABY HOSPITAL has been taken over by the Children's Memorial Hospital, and the two institutions will be used as before for the teaching of students. The Foundling Division affords a large amount of clinical material and gives special facilities for instruction in child welfare and infant feeding. There are 75 beds.

THE ALEXANDRA HOSPITAL FOR INFECTIOUS DISEASES, opened in 1906, with modern wards, cubicles and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

There are 172 beds, and, in 1939, 1,340 patients were admitted to the hospital. There were 11 autopsies.

The number of resident physicians is 4.

THE VERDUN PROTESTANT HOSPITAL has 1,100 beds. It serves to instruct students in the diagnosis and treatment of the psychoses. Students are taken about the wards in groups, and are required to report on cases and discuss the general problems of psychiatry with the teachers. Occupational therapy is emphasized.

THE ROYAL EDWARD INSTITUTE in its new building, 3674 St. Urbain St., has space for 23 beds, with operating room, X-Ray equipment and modern facilities for the examination of patients; it is essentially a dispensary for tuberculosis and offers adequate material for teaching students the essential features of pulmonary disease.

The Royal Victoria Hospital is adjacent to the Medical School, while the other affiliated hospitals are within easy access. These hospitals, with their large clinical and laboratory facilities, and their close affiliation with the University, offer excellent opportunities for the study of disease in all its phases.

LIBRARY

Honorary Librarian.....R. L. STEHLE

The Library occupies the central front section of the medical building. It contains more than 50,000 bound volumes and over 25,000 pamphlets, theses, government publications and other items.

On the third floor are the pleasant, well-lighted reading room, capable of accommodating seventy-five readers, and the periodical room, the catalogue, the charging desk, and exhibits of library treasures. The second floor contains the book stacks and three study rooms available to members of the teaching staff. The first floor is devoted to the technical operations of the library-ordering, cataloguing, etc.

The chief value of the Library is in its periodical collection. Relatively little in the way of important journal literature in all languages is not available in it. The book collection contains many rare volumes, some dating back to the sixteenth century. Among the books and journals the ophthalmological collection is excellent; its nucleus is the private collection of Dr. Casey A. Wood whose active interest the library still enjoys.

The Library is for the use of the members of the Teaching Staff, graduates of the Medical Faculty of the University, undergraduate students in the Faculty, graduates from other medical schools, showing proper credentials, and graduate nurses. Graduates living at a distance may borrow books and journals on payment of carriage both ways.

The Library is closed on Sundays, but is otherwise open daily during the academic session from 9 a.m. to 6 p.m., and 7.30 to 9.30 p.m., except Saturdays, when it is closed at 5 p.m. After June 1st it is open from 9 a.m. to 5 p.m.; Saturdays, 9 a.m. to 1. p.m. During July and August it is closed on Saturdays.

THE OSLER LIBRARY

Librarian.....W. W. FRANCIS

This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises nearly 9,000 volumes, occupies a large room, beautifully equipped, on the third floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works; and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue was completed, indexed, and printed after his death ("Bibliotheca Osleriana," Clarendon Press, Oxford, 1929, xxxvi, 785 pp.)

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 137 books printed in the fifteenth century.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers. The books belonging to the original collection may not be borrowed or removed from the Library, but this restriction does not apply to the current works on the history and biography of medicine and science which are constantly being added.

MEDICAL SOCIETIES

1. THE McGILL UNDERGRADUATE MEDICAL SOCIETY

The Society is composed of the registered students of the Faculty. Its purpose is:—

(1) To transact all matters of business connected with the undergraduate body.

(2) To stimulate interest along medical lines.

(3) To assist students to express themselves in public with facility.

(4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

Meetings are held every alternate Monday, at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

A prize competition has been established in the senior and junior subjects. The senior are open to all to write upon, while only students of the first three years are allowed to compete in junior subjects. The papers are examined by a board selected by the Faculty, and two prizes are awarded in each division. The papers are subject to the call of the Executive on December 1st, and must be handed in for examination before February 1st. The Society also controls the Students' Reading Room. English and American journals, as well as the leading daily newspapers, are kept on file.

2. ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Fourth and Fifth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

3. THE OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the Faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

McGILL UNIVERSITY

MONTREAL

FACULTY OF DENTISTRY

1940 - 1941

McGILL UNIVERSITY

FACULTY OF DENTISTRY

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, B.Com., M.A., Ph.D., F.R.S.C.

Dean of the Faculty of Dentistry.....A. L. Walsh, D.D.S., F.A.C.D.

Secretary and Bursar.....F. O. Stredder, M.A., Ph.D.
(on leave of absence)

Registrar.....T. H. Matthews, M.A.

Acting Bursar.....William Bentley, C.G.A., A.C.I.S.

A complete list of the teaching staff of the University, including the Faculty of Dentistry, is printed as a separate announcement, which may be obtained from the Registrar's Office.

ENTRANCE REQUIREMENTS

Every candidate for admission to the First Year in the Faculty of Dentistry must have completed two full years in the Faculty of Arts of a recognized university, including lectures and laboratory work in *Chemistry* (Inorganic and Organic), *Physics* and *Biology*.

In the case of those who intend to practise in the Province of Quebec it is essential that the candidate should:—

(a) take at least the second of the above two years in a recognized English University of this Province, or

(b) hold a Bachelor's degree from any recognized university in Canada, thus qualifying for eligibility to register with the College of Dental Surgeons of this Province in the study of Dentistry.

Courses meeting these requirements are offered in the Faculty of Arts and Science of McGill University, where a student may take the two years of study required, or the second of the two if he has satisfied the requirements of the first by Senior Matriculation, or otherwise.

Particulars of the Junior and Senior Matriculation Examinations are given in the General Announcement.

PROVINCIAL REGISTRATION

Intending students are reminded that a University degree in Dentistry does not itself give a right to practise the profession of Dentistry. It is necessary to comply with the dental laws of the country, state, or province in which it is proposed to begin practice. Each province in Canada at present has special requirements for its licence, and in all of them a certain standard of general education is insisted upon before the study of Dentistry may be begun. *Students who intend practising in Canada are advised to register their qualifications in the province in which they intend to practise, before they begin their university course.*

The following is a list of the Registrars of the Dental Boards of the several Canadian provinces. Students are advised to write for information whenever they are in doubt as to the regulations of any province.

**Ontario*—W. E. Wilmott, 211 Huron Street, Toronto, 5.
**Nova Scotia*—S. G. Ritchie, D.D.S., 36 South St., Halifax.
**New Brunswick*—S. K. Westmore, D.D.S., Saint John.
**Prince Edward Island*—C. D. Ayers, D.D.S., Charlottetown.
**Manitoba*—J. F. Morrison, D.D.S., 403 Medical Arts Bldg., Winnipeg.
**Alberta*—A. E. Hennigar, D.D.S., Herald Building, Calgary, Alta.
**Saskatchewan*—L. J. D. Faskin, Regina.
Quebec—Dr. Denis Forest, 3632 Park Ave., Montreal.
British Columbia—W. J. Lea, 1320 Medical Dental Building, Vancouver.

DOMINION DENTAL COUNCIL OF CANADA

Seven of the nine Canadian provinces (*i.e.*, all but Quebec and British Columbia) have entered into an agreement whereby the holder of a certificate granted by the Dominion Dental Council may practise in any of the subscribing provinces. In order to obtain this certificate a candidate must (1) hold a matriculation certificate of the proper standard; (2) be a graduate of a Dental College within the agreeing Provinces or take the Class D. Examination after five year practising in an agreeing Province (3) pass the examination set by the council, and (4) pay the local and provincial registration fee.

The Secretary of the Dominion Dental Council is Dr. A. J. Brett Regina, Sask.

REGISTRATION

Students in First and Second Years Dentistry register at the Registrar's Office on Tuesday, Sept. 3rd. Students in the Third and Fourth Years

*Members of the Dominion Dental Council.

register at the Registrar's Office on Monday, September 9th and Tuesday, September 10th. First and Second Year students registering after September 3rd and Third and Fourth Year students registering after September 10th are required to pay a late fee. No students are admitted after the 9th of October.

FEES

Tuition Fees

1. Annual undergraduate fee for British* students..... $325.00
   By instalments: Each of two instalments..... 165.00
   Annual undergraduate fee for Non-British* students..... 365.00
   By instalments: Each of two instalments..... 185.00

2. Students repeating the course of study of the first and second years are required to pay half the tuition fee. Students repeating the third and fourth years will pay a hospital fee of twenty-five dollars in addition to half the tuition fee.

3. Qualified partial students are admitted to one or more courses on payment of special fees. For further particulars consult the Dean's Office.

4. A Dental Cabinet may be rented during the academic year for a fee of $10.

5. A Microscope may be rented during the academic year for a fee of $7.50.

6. In Second Year—Crown and Bridge Model..... $20.00

General Regulations

7. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. to 1 p.m. and 2.30 to 4 p.m., on the following dates: First and Second Years, September 3rd and 4th; Third and Fourth Years, September 9th and 10th; but they may be paid before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2 is charged for payment after the specified dates.

8. Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 7.

---

*Domicile will in general determine whether a student pays the British or the Non-British fees. A student who is uncertain which rate he will be required to pay should consult the Registrar.

9. Immediately after the prescribed dates for the payment of fees, the Bursar sends to the Dean of each Faculty, a list of the registered students who have not paid their fees. The Deans thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

10. All fees are payable in Canadian currency.

NOTE: Special fees are given in the General Information Pamphlet included in this Announcement.

INSTRUMENTS

With the exception of extracting instruments, lathes, and vulcanizers, each student is required to furnish his own instruments and appliances for both laboratory and operating room, and is not permitted to enter the Course until he is thus supplied.

The approximate cost of instruments and supplies for the First and Second Years, which includes an Anatomical Articulator, an Engine and a Crown and Bridge Model, is $350.00.

Third Year approximate cost..... $100.00

Fourth Year approximate cost..... 75.00

All of these instruments and this equipment will be required for office use when the student enters practice and should be regarded as an investment for that purpose rather than a university expense.

Arrangements have been made with local Dental Supply Houses in order that the student may benefit by a special trade discount.

MEDALS AND PRIZES

The Montreal Dental Club Gold Medal, and a prize in books.—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the year.

The College of Dental Surgeons of the Province of Quebec.—A prize of twenty-five dollars awarded to the student, registered in this Province, obtaining the highest standing in the practical examinations of the Final Year.

The Lieutenant-Governor's Silver Medal, and a prize in books.—Awarded to the student in the Final Year who stands second in the class. The standing is determined in a manner similar to that followed in the awarding of the Gold Medal.

Third Year Prize in Books.—Awarded to the student obtaining the highest marks in written and practical subjects in the Third Year examinations.

The following prizes are given by the Mount Royal Dental Society:

First and Second Year Prizes.—A prize in books awarded to the student obtaining the highest standing at the sessional examinations.

SCHOLARSHIPS, BURSARIES, AND LOANS

Details of University and other scholarships and bursaries are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

The University has a small loan fund from which loans may be made to students of good academic standing. Loans are made only to students in the upper years. Applications for loans should, in the first place, be made to the Dean.

COURSE FOR THE DEGREE OF D.D.S.*

Candidates for the degree of D.D.S. must complete two years of study in a College or Faculty of Arts, with Physics, Inorganic and Organic Chemistry and Biology as compulsory subjects, before entering upon the four-year course in this Faculty. The curriculum is as follows:—

First Year

Anatomy (human)
Dental Anatomy
Histology, Medical and Dental
Physiology
Metallurgy
Prosthetic Technique
Crown and Bridge Technique
Operative Technique
Orientation in Dentistry
Materials used in Dentistry

Second Year

Crown and Bridge Work
Operative Technique
Orthodontia
Prosthetic Technique
Bacteriology
Biological Chemistry
Pharmacology
General Pathology
Technical Composition in Dentistry
Dental History
Dental Ethics
Dental Jurisprudence

---

*It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.

THIRD YEAR

Crown and Bridge Work
Dental Materia Medica and Therapeutics
Operative Dentistry
Orthodontia
Prosthetic Dentistry
Dental Radiography
General Anaesthesia
Oral Surgery
Local Anaesthesia
Dental Pathology
Root Canal Therapy
Social and Economic Relations of Dentistry

FOURTH YEAR

Orthodontia
Prosthetic Dentistry
Oral Surgery
Crown and Bridge Work
Medicine
Dental Office Management
Periodontia and Oral Hygiene
Diet and Nutrition

EXAMINATIONS

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

A minimum of 50 per cent in each subject is required to pass, and 75 per cent for honours.

All examinations in each year must be passed before a student is allowed to advance to the next.

Candidates who fail at the regular examinations in not more than three subjects of the First, Second or Third Years, may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations are held during the week preceding the regular opening of the session.

Failure in more than three subjects of the First, Second or Third Years at the regular examination excludes the candidate from advancement.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplementary examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional clinical attendance or laboratory work before presenting himself for examination.

Applications for supplemental examinations must be in the hands of the Dean at least three days before the date set for the beginning of the examination, and must be accompanied by a fee of $10.00 for each subject.

QUALIFICATIONS FOR THE DEGREE

1. No one is admitted to the degree of Doctor of Dental Surgery who has not attended lectures for a period of four sessions in the Dental Faculty of this University, or partly in this University and partly in some other approved university, college or school of dentistry.

2. Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University, are required to pass an oral examination in primary subjects, and all examinations in the final subjects in the same manner as students of this University.

No one is permitted to become a candidate for the degree who has not attended at least one full session at this University.

3. Candidates for the final examination must furnish testimonials of attendance on the branches of dental education mentioned on page 564; provided, however, that testimonials equivalent to, though not precisely the same as these, may be presented and accepted.

COURSES OF LECTURES

ANATOMY

Robert Reford Professor of Anatomy...C. P. MARTIN
Assistant Professor of Anatomy.....
Assistant Professor of Histology.....H. SELYE
Lecturer in Histology.....A. J. DALTON
Senior Demonstrator in Anatomy.....D. S. FORSTER
Demonstrators.....F. M. FISHER, W. WALFORD, E. W. WORKMAN

ANATOMY

1A. GROSS ANATOMY.

This course covers the first two terms of the first year, and is planned so that after making a general survey of the whole body, the dental student concentrates his attention on the head and neck. The course runs concurrently with the course in First Year Medicine (Anatomy 1), and comprises five hours lectures and fifteen hours laboratory work a week during the Autumn and Winter terms.

MISCROSCOPIC ANATOMY

1. HISTOLOGY AND EMBRYOLOGY.

This course coincides for the main part with the Medical Microscopic Anatomy Course 5 but the endocrine and reproductive organs are excluded and special lectures on dental histology and the embryology of the mouth are included. The course finishes at the end of the Winter term.

Laboratory Manual:—Cunningham, Manual of Anatomy, vols. II & III.

Anatomy Text-book:—Gray, Anatomy, or Cunningham, Text-book of Anatomy.

Histology Text-book:—Bailey, Textbook of Histology, or Maximow and Bloom, Histology.

BACTERIOLOGY

Professor.....E. G. D. Murray
Associate Professor.....Frederick Smith
Assistant Professor.....T. E. Roy
Lecturers.....C. D. Kelly, W. H. Mathews*, C. R. Brewer
Demonstrators.....D. H. Starkey*, Ruth P. Dow, N. W. McLellan, L. P. Demers, M. F. Howie

All lectures and laboratory courses are given in the Department of Bacteriology (Institute of Pathology).

Elementary Medical Bacteriology and Immunity

30 lectures and 63 hours Practical Work. Third term.—Available to Students of Dentistry on the completion of their studies in Anatomy Physiology, Histology and Biological Chemistry.

A choice of one of the following books is recommended:—

T. J. Mackie & J. E. McCartney, Practical Bacteriology (Livingstone); J. W. Bigger, Handbook of Bacteriology (Bailliere, Tindall & Cox), or others listed in the Announcements of the Faculties of Arts and Science, and Medicine.

PATHOLOGY

Professor.....G. Lyman Duff
Lecturer.....F. W. Wiglesworth*
Demonstrators.....E. S. Ingraham, H. D. Chipps

Required Courses

1. Course in General Pathology.

A. Two lectures per week (with epidiascopic and microscopic demonstrations) during the Winter and Spring terms. (52 lectures).
Professor Duff.

B. Two practical laboratory classes per week during the Spring Term. (80 hours practical work). Professor Duff,
Dr. Wiglesworth and Demonstrators.

PHARMACOLOGY

Professor.....R. L. Stehle
Assistant Professor.....K. I. Melville
Lecturer.....A. M. Fraser

*On Military Service.

A course of ten lectures concerned with those phases of pharmacology which are of importance in dentistry, supplemented by five laboratory periods of demonstrations.

Text-books:—Cushny's, Sollmann's or any other standard text.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

Professor.....GRANT FLEMING

A special course of eight lectures on the relations of Dentistry with Public Health and Preventive Medicine.

MEDICINE

(Including General Medicine, Nutrition, Dermatology, Allergic Diseases and Paediatrics).

Professor of Medicine.....JONATHAN C. MEAKINS
Professor of Paediatrics.....R. R. STRUTHERS
Associate Professor of Medicine...I. M. RABINOWITCH*
Clinical Professor.....J. F. BURGESS
Demonstrator in Medicine.....H. E. MACDERMOT

This course is designed to give the dental student a general insight into medical conditions which are influenced, either directly or indirectly, by dental problems, as well as general diseases and other pathological processes which influence dentition and the condition of the teeth and gums.

The course consists of twenty-six clinical lectures at which, as far as possible, suitable clinical material is presented to illustrate the various abnormal processes. It is not attempted to give the dental student the impression that he is getting a complete course in Medicine but rather to impress upon him when and how he can be of assistance to the individual in regard to general medical problems and, where the latter also requires his aid, in solving many problems.

Particular attention is paid to:—

(1) Infectious and systemic diseases which may affect the mouth, have manifestations in the mouth, or where the condition of the mouth is important in the general course of the disease;

(2) The importance of diet and nutrition upon the general welfare of man, including food requirements, chemistry of nutrition, calorimetry, metabolism, the ductless glands and their influence on nutrition, etc.

(3) The local manifestations of diseases of the skin as seen in the mouth and mucous membranes;

(4) The importance of proper dentition in the child, with particular emphasis being placed upon vitamins and congenital deficiencies.

*On Military Service.

THE VERDUN PROTESTANT HOSPITAL has 1,100 beds. It serves to truct students in the diagnosis and treatment of the psychoses. Students taken about the wards in groups, and are required to report on cases d discuss the general problems of psychiatry with the teachers. Occu-ional therapy is emphasized.

THE ROYAL EDWARD INSTITUTE in its new building, 3674 St. Urbain , has space for 23 beds, with operating room, X-Ray equipment and dern facilities for the examination of patients; it is essentially a dis-nsary for tuberculosis and offers adequate material for teaching students essential features of pulmonary disease.

The Royal Victoria Hospital is adjacent to the Medical School, ile the other affiliated hospitals are within easy access. These hospitals, h their large clinical and laboratory facilities, and their close affiliation h the University, offer excellent opportunities for the study of disease all its phases.

LIBRARY

Honorary Librarian.....R. L. STEHLE

The Library occupies the central front section of the medical building. contains more than 50,000 bound volumes and over 25,000 pamphlets, ses, government publications and other items.

On the third floor are the pleasant, well-lighted reading room, capable accommodating seventy-five readers, and the periodical room, the alogue, the charging desk, and exhibits of library treasures. The ond floor contains the book stacks and three study rooms available to mbers of the teaching staff. The first floor is devoted to the technical erations of the library-ordering, cataloguing, etc.

The chief value of the Library is in its periodical collection. Rela-ely little in the way of important journal literature in all languages is available in it. The book collection contains many rare volumes, ne dating back to the sixteenth century. Among the books and journals ophthalmological collection is excellent; its nucleus is the private lection of Dr. Casey A. Wood whose active interest the library still oys.

The Library is for the use of the members of the Teaching Staff, duates of the Medical Faculty of the University, undergraduate stu-nts in the Faculty, graduates from other medical schools, showing per credentials, and graduate nurses. Graduates living at a distance y borrow books and journals on payment of carriage both ways.

The Library is closed on Sundays, but is otherwise open daily during academic session from 9 a.m. to 6 p.m., and 7.30 to 9.30 p.m., except turdays, when it is closed at 5 p.m. After June 1st it is open from 9 n. to 5 p.m.; Saturdays, 9 a.m. to 1. p.m. During July and August s closed on Saturdays.

BIOCHEMISTRY

Professors.....{J. B. COLLIP, D. L. THOMSON
Lecturers.....{O. F. DENSTEDT, A. H. NEUFELD

This course is taken with the Medical Students.

REQUIRED COURSES

1. BIOCHEMISTRY—LECTURE COURSE:

Text-books:—Bodansky, Introduction to Physiological Ch (Wiley); Cameron, A Text book of Biochemistry (Macmillan); W Text-book of Biochemistry (Van Nostrand).

Monday, Wednesday and Friday at 9, during the Autumn and terms.

2. BIOCHEMISTRY—LABORATORY COURSE:

A synopsis of the course is issued by the Department.

Six hours a week: Monday morning; Thursday afternoon.

DENTAL PATHOLOGY

Demonstrator.....A. GERALD RACEY

This course in Pathology is given in the Third Year.

It includes a study of the developmental defects and malfor of the teeth and special consideration is given to the study of the e diagnosis and pathology of Dental Caries; Diseases of the dent Periapical diseases; Periodontal diseases; Odontogenic cysts; and which commonly occur in the oral cavity.

A study is also made of the oral manifestations of certain of fective granulomata, as well as vitamin deficiencies and endocr turbances.

In the laboratory microscopic slides of many of these condit studied.

The course extends over the entire session, one hour per weel the first half year, and two hours per week during the second half.

Text-books:—Thoma: "Oral Diagnosis and Treatment P Kronfeld: "Histopathology of the Teeth and Their Surrounding Stru Thoma: "Clinical Pathology of the Jaws"; Bunting: "Oral Patho

CLINICAL INSTRUCTION

Clinical instruction is given in the Operating Theatre and Out-Patient Department and in the Dental Clinic of the Montreal General Hospital. Abundant opportunity is afforded in this institution for the study of diseased conditions of the mouth and jaws, and for watching operations in these regions.

DENTAL SURGERY

Professor of Dental Surgery.....A. L. WALSH
Lecturer.....J. W. GERRIE*
Demonstrators.....R. E. McMAHON*, F. W. SAUNDERS*

Thirty lectures are given to the Junior Students in the above subject, which includes exodontia, cysts, fractures, and benign tumours, alveolectomy and apicœctomy and local anaesthesia. The Seniors are given clinics on practical cases and are required to complete one case during the year in any of the above, excepting exodontia.

GENERAL ANAESTHESIA

Lecturer.....C. C. STEWART

This course, given in the Third Year, comprises a short series of lectures on the general principles and the physiology of anaesthesia, with special emphasis laid on the factors of safety and the suitability of the anaesthetic agent employed. An equal amount of time is spent in the main operating theatre where demonstrations are given of the use of all modern methods of general anaesthesia for dental and oral surgery under actual working conditions.

Text-Book—"A. E. Guedel, Inhalation Anaesthesia" (MacMillan).

DENTAL PHARMACOLOGY AND THERAPEUTICS

Demonstrator.....J. WILFRED JOHNSTON

This course is divided into two parts:

1. Given to second year students comprises the study of the physical properties, chemical composition and physiological action of the various medicinal substances and drugs used in the treatment of diseased conditions of the dental organs and related system.

2. Given to third year student treats the providing doses, antidotes, and contra-indications of the drugs previously studied together with physical and thermal methods that are of use in dealing with morbid conditions of the oral cavity. Special emphasis is paid to the remedies advocated in other courses and in use in the teaching Clinic.

Text-books: Prinz: Dental Materia Medica & Therapeutics, Cipes. Prescription writing for Dentists. Accepted Dental Remedies.

*On Military Service.

DENTAL HISTORY, ETHICS AND OFFICE MANAGEMENT

Lecturers..... EARL M. LAURIN, J. NEILSON BLACKLOCK
Demonstrator..... JOHN S. COMMON

HISTORY:—

This course is intended to give the student an intelligent conception of the evolution and development of dentistry from the primitive conditions and methods of the past to the present standing of the profession as a branch of the healing art. The relation of some of the outstanding men of the profession to this development will also be dealt with.

ETHICS:—

Under this head the moral, social and business relationships between the dentist and his patient will be discussed, as well as his duty to the public, his fellow practitioner, and himself.

OFFICE MANAGEMENT:—

Under this head the business of the dentist's life will be considered. The question of office equipment, keeping of appointments, overhead charges, methods of determining fees, office assistants, etc., will be taken up.

DENTAL JURISPRUDENCE

Professor.....

A discussion of the laws governing the practice of Dentistry, their necessity and purpose.

The responsibility of the dentist under the laws of the Province, his position as defendant in suits for damages and as plaintiff in suits for fees, are fully explained.

METALLURGY

Associate Professor.... GORDON ST. GEORGE SPROULE

This course is given to Dental students of the First Year by the Metallurgical Department of the University.

It consists of twelve lectures of one hour, and twelve laboratory periods of two and a half hours each.

The lecture course covers:—

(1) Introductory lectures on the physical and chemical properties of metals, especially in relation to their use in dentistry.

(2) Methods of melting, casting and alloying metals in the laboratory.

(3) Methods of extracting metals from their ores.

(4) The nature and preparation of alloys, including amalgams.

(5) The metals used in dentistry (lead, zinc, tin, bismuth, cadmium, antimony, aluminum, copper, silver, gold, platinum, iridium, mercury, iron and steel) are considered separately in regard to their properties, uses in dentistry, and, as far as time allows, extraction from their ores. The separation, purification and alloying of gold, silver and platinum are specially considered.

(6) The manufacture, properties and uses of dental amalgams.

Text-book:—J. D. Hodgen, Practical Dental Metallurgy.

The laboratory course includes experimental work with the metals; gold, silver, copper, lead, zinc, tin, aluminum, nickel, iron and steel.

The metals are melted, alloyed, cast, hammered, filed, cut, rolled, annealed and tested with acids and other chemicals.

The preparation of pure gold and silver is carried out and the production and testing of dental and other amalgams.

The course is given during the first term of each session by Professo r Sproule.

DENTAL ANATOMY

Demonstrators.....{EROL B. CLIFT
J. WILFRED JOHNSTON

This course, given in connection with general anatomy in the First Year, aims at giving the student a thorough knowledge of the size, shape, uses, and general construction of the natural teeth, their articulation and composition.

This is accomplished by lectures and demonstrations, with the use of drawings, models and lantern slides.

The student is required to carve in plaster four teeth three times natural size and fourteen teeth natural size representing all the forms in the human mouth, which are then articulated anatomically.

Different sections of extracted teeth are made to familiarize the student with the relationship of the different structures composing the teeth.

The total time given this subject during the First Year is five hours a week for a period of twenty-six weeks, total of one hundred and ten hours, divided as follows:—one hour a week devoted to lectures, twenty-six hours; the balance to demonstrating, modelling, carving, making sections, etc., one hundred and four hours.

Text-book:—G. V. Black and M. Diamond (Macmillan).

OPERATIVE DENTISTRY

Professor.....F. H. A. Baxter
Associate Professor.....D. Prescott Mowry
Lecturer.....W. G. Leahy
Demonstrators.....H. V. Driver*
F. A. Edward*
L. F. McRae*
C. H. P. Moore
P. H Rowe
C. R. Seller
S. S. Smaill
Wm. G. Stockwell
E. T. Cleveland
J. E. Vanvliet

The purpose of this course is to make the students thoroughly familiar with all modern and accepted methods. The course of lectures extends over two years and a half, and includes discussion of the treatment of caries: the preparation of cavities, the materials used for filling, the most approved instruments and appliances used in operating upon the teeth. Clinics will be held at the Dental Clinic, where ample material is provided and every available means used to make the student practically conversant with all the up-to-date knowledge of this important branch of dental science.

In conjunction with this course, operative technics is taken up, which provides a systematic course in manual training, thoroughly familiarizing the student with the anatomy of the teeth, and the shaping of cavities, from the simple to the more complex. This is carried out on models, using the different regular filling materials, scaling, bleaching, and, so far as possible, all of the operative procedures.

The Dental Clinic is open throughout the whole year, and students are advised to give as long a time to this work as possible. Each student must provide himself with the instruments necessary for his own use. The School arranges that a kit of instruments is ready at the commencement of the First and Second years for each student. He is required to perform all the usual dental operations as they present themselves, under the supervision of competent demonstrators, who are always at hand to offer advice and assistance under the direction of the Professor. Between the Second and Third Years, and also between the Third and Fourth Years, students are required to spend six weeks doing practical work in the Hospital Clinic.

Text-books:—G. V. Black, 2 Vols. (Medico-Dental Co., Chicago); C. N. Johnson (Blakiston); M. E. Jordan, Dental Items of Interest; W. H. O. McGehee, Text-book of Operative Dentistry (Blakiston).

Reference for Periodontia:—Stilman & McCall, Clinical Periodontia (Macmillan, New York).

*On Military Service.

PERIODONTIA.

Arrangement is made for co-ordination of the theoretical study, practical instruction and clinical practice in the treatment of pathological conditions to be found in the peridental tissues. The physiological and histological structure in relation to function, is made a basis for the study and treatment of the peridental tissues.

Text-books:—Orban, Dental Histology and Embryology; Kronfeld, Histopathology of the Teeth and Their Surrounding Structures.

ORTHODONTIA

Professor.....A. W. McCLELLAND
Lecturer.....GERALD FRANKLIN*
Demonstrators.....M. L. DONIGAN, A. R. WINN

The course in this branch of Dentistry commences with the study of the embryology of the dental organs, covering growth, development and eruption of the teeth.

Orthodontia is taught in three full years of the dental course.

The work of the second year is chosen with a view to giving the student a thorough course in technique. Here, different kinds of free-hand soldering are taught, together with the making of simple appliances; the taking of impressions and the making of plaster models is also taken up in this year.

The third year's work may be divided up into three parts, Practical, Theoretical and Clinical. Advanced appliance technique, plaster work, etc., comprises the practical work of this year.

Ten lectures are given, covering terminology, occlusion and classification, which is deemed sufficient to enable the student to enter on the more difficult theoretical problems of his final year.

Following the lectures, group chair-clinics are given, when patients are examined, simple cases diagnosed, etc.

The third year student is associated with a student of the final year, who is carrying on cases under treatment in the clinic at the Montreal General Hospital. The third year student does not take part in the active treatment, however.

In the fourth or final year a course of advanced lectures is given. These lectures cover Etiology, diagnoses and preventive orthodontia.

Clinical cases are assigned to each student which he treats under strict supervision.

*On Military Service.

He is called upon to make appliances suitable to the case at hand. Such appliances are designed by the staff and are constructed of precious metals.

Together with the student being responsible for the treatment of the cases assigned him, he must familiarize himself with all other cases under treatment.

Histology is reviewed, paying special attention to the changes that take place in the bone tissue incident to tooth movement.

In the laboratory, slides which are specially selected are microscopically examined.

Text-books recommended are:—Dewey, Brash, Angle, McCoy.

PROSTHETIC DENTISTRY

Professor.....J. S. Dohan
Lecturer.....I. K. Lowry
Demonstrator.....R. E. Dagg
Special Lecturers.....E. T. Bourke*, J. C. Flanagan

The course in prosthetic dentistry embraces lectures illustrated by lantern slides, and practical work in the laboratory, under the supervision of the demonstrator of technics. It includes the preparation of the mouth for dentures, impressions, and the properties of materials used in the construction of artificial dentures. The student is required to construct the different forms commonly used. Attention is directed to the different functions to be performed by the denture in the restoration of the natural conditions as regards mastication, enunciation and the restoring of the features.

Text-book:—Pierce & Anthony, The American Text-book of Prosthetic Dentistry (Lea & Febiger).

CROWN AND BRIDGE WORK

Lecturer.....W. C. Bushell
Demonstrators.....P. R. Marchand, William G. Stockwell.

The course in Crown and Bridgework extends from the third semester of the Freshman year, through the Sophomore, Junior and Senior years.

During the third semester of the Freshman year, the student is given training in the manipulation of wax—the technique of casting and the art of soldering. (First Year—60 hours—Third term.)

*On Military Service.

The work of the second year is chosen with a view to giving the student a thorough course in technique. Throughout the three terms of the second year, the student is taught the technical steps in the construction of various types of crowns—a most thorough course in casting technique— soldering and also a study of materials used, such as wax, compound, investments, etc. The third term is devoted entirely to inlays by the Indirect System, both as fillings and as bridge abutments, cavity preparations—impression taking—die making—obtaining wax pattern—investing and casting same. (Second year—120 hours—1st-2nd-3rd terms.)

In the Junior year, the student is given four fixed bridges to construct on a typodont. Bridgework of both fixed and movable types with special emphasis on abutment preparation for vital teeth. Technique of construction of the different types of bridge pontics. (Junior Year—60 hours—2nd-3rd terms).

The laboratory course parallels the lecture course. A series of lectures are given discussing the principles of fixed and removable bridgework—indications and contra-indications—choice of abutments—construction of pontics.

The first and second terms of the Senior year are given up to Ceramics. The students are required to construct a porcelain Jacket Crown—a porcelain bridge and an inlay on a model. Lectures are continued in the Senior year.

In the third and fourth years, the student is given practical work in the clinic. Each student is required to complete satisfactorily a certain number of bridge restorations. By means of lectures and personal demonstrations each student is taught how to examine the mouth and how to diagnose different conditions with an aim in view of properly designing appliances which will restore the mouth to health and functional occlusion.

Reference books:—Diamond, Dental Anatomy (Dental Items of Interest); Doxtater, Modern Crown & Bridgework (Dental Items of Interest); Gillet & Irving, Inlays by the Indirect System (Dental Items of Interest); Schwartz, Cavity Preparation & Abutment Construction (Dental Items of Interest); Felcher, Art of Porcelain in Dentistry (Dental Cosmos); Le Gro, Ceramics in Dentistry (Dental Items of Interest); American Text-book of Prosthetic Dentistry (Lea & Febiger).

CLINIC

Students are required to attend the clinic every day during the Third and Fourth Years from nine to twelve o'clock and from one-thirty to five o'clock, except during such part of the time as may be taken up with lec-

tures or other work of the University course. The practical dental work is supervised by the Director of the clinic and his associates. Anaesthetics are administered by members of the resident staff of the Hospital, who give practical instruction in this most important branch. A nurse is also in attendance during clinic hours.

LIBRARY

In conjunction with the Medical Library, which contains all the standard text-books in the branches of the first two years in Dentistry, there is a section dealing exclusively with dental subjects. Students may consult any work of reference in the Library between 9 a.m. and 9 p.m. during the session; Saturdays, 9 a.m. to 5 p.m.

MUSEUM

In connection with the Pathological Museum of the Medical Faculty there is a very good collection of plaster casts of deformities of the jaw, etc., and also a very large collection of teeth of all varieties.

McGILL UNIVERSITY

MONTREAL

FACULTY OF LAW

McGILL UNIVERSITY

MONTREAL

FACULTY OF LAW

1940 - 1941

McGILL UNIVERSITY

FACULTY OF LAW

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, B.Com., M.A., Ph.D., F.R.S.C.

Dean of the Faculty of Law.....Charles Stuart Le Mesurier, K.C., B.A., B.C.L.

Secretary and Bursar.....F. O. Stredder, M.A., Ph.D.
(on leave of absence)

Registrar.....T. H. Matthews, M.A.

Acting Bursar.....William Bentley, C.G.A., A.C.I.S.

Secretary of the Faculty of Law.....John P. Humphrey, B.Com., B.A., B.C.L.

A complete list of the teaching staff of the University, including the Faculty of Law, is printed as a separate announcement, which may be obtained from the Registrar's Office.

GENERAL INFORMATION

COURSE OF STUDY

The Faculty offers a three-year course in Law, based mainly on the study of the Roman and Civil systems, the curriculum and time table being arranged on the assumption that a student is devoting his entire time to his university work.

ADMISSION

Students who have successfully completed two years in the Faculty of Arts and Science at McGill University will be admitted to the Faculty of Law without further examination. Other candidates for admission will have to satisfy the Faculty that they have attained an equivalent educational standard, and are intellectually qualified to pursue with advantage the study of law.

Students whose right to enter the Third Year of the Arts and Science Faculty is conditional upon their passing supplemental examinations are not eligible for admission to the Faculty of Law.

Women are admitted to the Faculty on the same terms as men, and are eligible for the degree. As the law stands at present, however, they cannot be admitted to the Bar or to the notarial profession in the Province of Quebec.

The Faculty may admit a limited number of suitable persons to attend selected courses of lectures without matriculation in the University. Such permission will only be granted to applicants of at least twenty-one years of age who satisfy the Faculty of their capacity to undertake with advantage the study of law. They will not be allowed to proceed to a degree, but will be entitled to receive a certificate specifying the course of study which they have successfully pursued and the class which they have obtained in the examination.

Candidates for admission are required to interview the Secretary of the Faculty and to obtain permission to register from him.

Students intending to practise as lawyers or notaries in the Province of Quebec are referred to the information on page 611 regarding admission to the legal professions.

FRENCH

The attention of students is directed to the necessity of being able to read French easily, as the greater number of the works to which they will be referred are in that language.

REGISTRATION

All students must register in person at the office of the University Registrar between Monday, September 23rd, and Saturday, September 28th (up to 12.00 noon on the 28th). First Year students who wish to consult the Dean personally with regard to their course should register not later than Thursday, September 26th.

Students registering later than the prescribed dates will be required to pay a late registration fee of $5 during the first week of the session and $10 during the second. This will not be refunded, except by special permission of the Faculty.

Students must bring with them at the time of registration the evidence necessary to show that they are entitled to admission into the Faculty, if this has not already been furnished.

FEES.

The regular fees and special fees are given in the General Information Pamphlet included in this Announcement.

DATES FOR PAYMENT.

Fees are due and payable at the Bursar's Office between Monday, September 23rd, and Saturday, September 28th, but they may be paid before these dates. The second instalment is due and payable on February 1st. An additional $2 is charged for payment after the specified dates.

Students registering late must pay their fees when they register, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees a list of the registered students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students are not readmitted to any class until instructions have been received from the Bursar that the fees have been paid.

All fees are payable in Canadian currency.

PRIZES, SCHOLARSHIPS, AND MEDALS

The "Elizabeth Torrance Gold Medal," founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

The Montreal Bar Association offers a prize of $50 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association a prize of $15 to the student who obtains the best marks in Civil Procedure in the Final Year.

The "Alexander Morris Exhibition," of the value of $50, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

Other prizes may be awarded at the discretion of the Governors.

The "Macdonald Travelling Scholarship" was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language". The value of the scholarship is the income from a capital sum of $24,335, and is approximately $900. The scholar elected is required to pursue a year's study in the Law Faculty of a French University approved, in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class, not being a notarial student, who has obtained first or second class honours in the Final Examination, and who would be unable without such financial help to spend a year in France. The Faculty interprets the will of the late Sir William

Macdonald as intending that the Scholarship be awarded only to men students preparing for practice as advocates in the Province of Quebec. This scholarship will not be awarded until further notice.

The "Edwin Botsford Busteed Scholarship" was founded by the will of the late Mrs. Edwin Botsford Busteed and will be awarded to a student, chosen by the Faculty, in the graduating year who desires to carry out research after graduation on some subject connected with the law of Quebec. The value of the scholarship is the income from a capital sum of $6,000 and is approximately $240. The successful candidate, whether or not he registers for the degree of M.C.L., will be required to report progress at intervals during his tenancy of the scholarship, and to prepare a thesis on a subject approved by the Faculty.

The "Thomas Alexander Rowat Scholarship" was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. The value of the scholarship is the income from a capital sum of $1,000, and is approximately $75. It is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in the session 1941-42.

The "Charles Albert Nutting Prize" was founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother, Charles Albert Nutting, K.C., B.C.L., who graduated from this Faculty in 1872. The value of the prize is the income from a capital sum of $1,000, and is approximately $40. It is awarded to the student in the first or second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

Students in the Faculty are eligible for Rhodes Scholarships tenable at the University of Oxford for a term of three years.

The Lieutenant-Governor's Silver Medal will be awarded to the student who stands highest in the Final Examination in Roman Law.

The Adolphe Mailhiot Prize, established by Mr. and Mrs. J. N. Mailhiot of Victoriaville, P.Q., in 1927, consists of a prize of law books to be given annually to a student selected by the Faculty usually, but not necessarily, in the graduating class.

No medals, prizes or scholarships will be awarded, if, in the opinion of the Faculty, there is no candidate of sufficient merit.

SCHOLARSHIPS ANNOUNCEMENT

A complete list of scholarships and bursaries and the regulations governing the various loan funds are given in the Announcement of Scholarships, Bursaries, and Loan Funds which may be obtained from the Registrar's Office.

DEGREES

B.C.L

The degree granted in the Faculty is that of Bachelor of Civil Law. The course covers three years.

No student under the age of 21 years will be eligible for a degree.

M.C.L.

The degree of Master of Civil Law is granted under the authority of the Faculty of Graduate Studies and Research for advanced study in legal subjects. Th candidate must have the degree of B.C.L. from McGill or its equivalent, and must have obtained at least second class honours in the subject which he proposes to study and in the course as a whole. He must spend at least one year in resident study and present a thesis on some topic connected with his subject. The complete regulations governing this degree are given in the Announcement of the Faculty of Graduate Studies and Research.

D.C.L

The degree of Doctor of Civil Law is granted under the authority of the Faculty of Graduate Studies and Research. The regulations governing this degree are given in the Announcement of that Faculty.

LIBRARY

The Law Library of the University at present contains over 14,000 volumes, and immediately adjoins the lecture rooms. The principal reports of Canada, the United Kingdom, and France are included, as well as a selection of reports from the United States and elsewhere.

There is a small lending library, from which students can obtain text-books for the session on payment of an *ad valorem* fee.

The general Library of the University is also available for the use of Law students.

OFFICE ATTENDANCE

The attention of students is directed to the amendment of the Bar Act passed at the 1925 session of the Quebec Legislature which reduces the period of clerkship to one year for students who have previously obtained a recognized degree in Law. Advantage has been taken of this to reorganize the Faculty on a full-time basis. The final Bar examination may be taken as soon as the student has been admitted to the study of Law and has his B.C.L. degree. (For particulars as to Bar requirements, see page 611).

EXAMINATIONS

Examinations will be held:—

(a) At the end of the first session, covering the year's work, the final examination in International Law being held at this time.

(b) At the end of the second session, covering the second year's work, the final examination in Roman and Constitutional Law and Criminal Law and Procedure on the work of both years being held at this time.

(c) At the end of the course, on the work of the three years, except Roman Law, Constitutional Law, International Law and Criminal Law. The results obtained in the final examinations in these four subjects are included in the Third Year total.

Subject to the approval of the Faculty in each case, a student who has been prevented by illness from taking certain papers in the sessional examination may be permitted to take special papers on the same subjects. A fee of $5 will be payable in respect of each paper. No other special examinations will be granted.

At all examinations in the Faculty students are at liberty to write their answers either in English or in French.

CLASSIFICATION OF MARKS

Class I	80–100%
Class II	70– 79%
Class III	50– 69%

In order to pass a student must have an average of 60%.

GRADUATING ESSAY

In addition to passing examinations students must submit, not later than the 31st of January of their graduating year, a thesis of from five to ten thousand words on a subject set by the Faculty. Although no marks are assigned to the thesis, no degree will be granted unless it is adjudged satisfactory. It will be taken into account in awarding honours and prizes of a general nature, such as the Elizabeth Torrance Gold Medal and the Macdonald Travelling Scholarship, and in deciding upon doubtful cases.

CURRICULUM

FIRST YEAR

Roman Law

Three hours throughout the session — Professor J. P. Humphrey.

Civil Law

(a) Persons and Property.
Two hours throughout the session. — Professor C. S. Le Mesurier.

(b) Obligations.
Two hours throughout the session. — Professor F. R. Scott. (Not given 1940-41)

Criminal Law and Procedure

Two hours throughout the session. — Professor C. S. Le Mesurier. Mr. G. Fauteux.

Constitutional Law

One hour throughout the session. — Professor F. R. Scott. (Not given 1940-41)

International Law

One hour throughout the session. — Professor P. E. Corbett.

Accountancy

Details to be announced.

SECOND YEAR

Roman Law

One hour throughout the session. — Professor J. P. Humphrey.

Civil Law

(a) Sale, agency, partnership, privileges, hypothecs and registration.
Two hours throughout the session. — Professor C. S. Le Mesurier.

(b) Marriage covenants, lease and hire, prescription and minor contracts.
Two hours throughout the session. — Professor W. F. Chipman.

(c) Successions, gifts, wills, substitutions and trusts.
One hour throughout the session. — Mr. Chateauguay Perrault.

Legal History

One hour, one term. — Professor F. R. Scott. (Not given 1940-41)

Civil Procedure

Two hours, first term. — Professor O. S. Tyndale.
Two hours, second term. — Mr. W. F. Macklaier.

Constitutional Law

One hour throughout the session. — Professor F. R. Scott. (Not given 1940-41)

Administrative Law

Two hours throughout the session. — Professor J. P. Humphrey.

Criminal Law and Procedure

One hour, one term. — Mr. G. Fauteux.

THIRD YEAR

Commercial and Maritime Law

(a) Corporations.
One hour throughout the session. — Professor A. S. Bruneau.

(b) Introduction to the study of Commercial Law and Insurance.
One hour throughout the session. — Professor B. Claxton.

(c) Negotiable instruments.
Two hours, first term. — Mr. F. T. Collins.

(d) Maritime Law and Carriers.
Two hours, second term. — Mr. R. C. Holden.

Civil Law Review

One hour, one term. — Professor C. S. Le Mesurier.

Civil Procedure

Two hours, first term. — Mr. W. F. Macklaier.
Two hours, second term. — Professor O. S. Tyndale.

Evidence

One hour, one term. — Professor O. S. Tyndale.

Comparative Law

One hour, one term. Professor P. E. Corbett.

Conflict of Laws

Two hours throughout the session. Professor C. S. Le Mesurier.

Note—Changes in the by-laws of the Bar of the Province of Quebec governing legal education may necessitate some modifications in the curriculum.

ADMISSION TO THE LEGAL PROFESSIONS IN QUEBEC

Candidates proceeding to the Quebec Bar must be British subjects, hold the degree of B.A., B.Litt., or B.Sc. from a Canadian or British university, and satisfy the Bar Examiners that they have successfully completed "the regular course in philosophy" in an approved university. The latter course may be taken concurrently with the law course.

Candidates for admission to the Notarial profession must also be British subjects and hold the degree of B.A., B.Litt., or B.Sc. from a Canadian, English or French university.

Further information regarding admission to the Bar can be obtained by applying to Mr. Arthur Jodoin, K.C. secretary of the Quebec Bar Association, Room 622, 132 St. James St. W., Montreal, or by consulting the Bar Act, 1925, R.S.Q. chap. 210 (as amended). Information regarding admission to the Notarial profession can be obtained by applying to Mr. Arthur Courtois, Room 320, New Court House, Montreal, or by consulting the Notarial Code, 1925 R.S.Q., chap. 211 (as amended).

McGILL UNIVERSITY

MONTREAL

FACULTY OF MUSIC

1940-41

McGILL UNIVERSITY

MONTREAL

FACULTY OF MUSIC

1940-41

INDEX

	Page
Admission	644
Bursaries	648
Calendar	640
Classes of Students	644
Conservatorium Regulations	646
Facts of Historical Interest	642
Fees	645
Lecture Time Table	639
Public events during 1939-1940	643
Scholarships	647
Sessional Announcement	644
Staff	636
Public Examinations for Degrees and Diplomas.	
Centres of Examinations	676
Degrees in Music, Mus. Doc	720
" " " Mus. Bac	648
Diploma in Music, Regulations for Licentiate in Music	651
" " " Regulations for Associateship in Music	668
Exemption from First and Second Mus. Bac. Examinations	649
Fees	646
Local Representatives and Secretaries	676
Matriculation	648
Public Examinations for "Instructor in School Music" Certificate	669, 670, 671, 672
Practical Examinations for Licentiate	652
Teachers' Examination and Courses	663
Public Local Examinations.	
Advice to Teachers and Candidates	673, 674
Class Singing Examinations	680–719
Centres of Examinations	676
Fees	680
General School Examinations	680–719
Local Representatives and Secretaries	676
Practical Examinations	682
Regulations for Examinations	674
Theoretical Examinations	680

McGILL UNIVERSITY

VISITOR

His Excellency the Governor-General of Canada

CHANCELLOR

Sir Edward Beatty, G.B.E., K.C., D.C.L., LL.D.

PRINCIPAL

F. Cyril James, B.Com., M.A., Ph.D., F.R.S.C.

DEAN OF THE FACULTY OF MUSIC AND DIRECTOR OF THE CONSERVATORIUM

Douglas Clarke, M.A., Mus.B., F.R.C.M., F.R.C.O.

SECRETARY AND BURSAR

F. O. Stredder, M.A., Ph.D. (on leave of absence)

REGISTRAR

T. H. Matthews, M.A.

VICE-DIRECTOR AND SECRETARY OF THE CONSERVATORIUM OF MUSIC

R. de H. Tupper, Address:—677 Sherbrooke St. W., Montreal

All communications should be addressed to the Secretary of the Conservatorium, as shown above.

STAFF OF THE CONSERVATORIUM

DIRECTOR:—MR. DOUGLAS CLARKE, M.A., Mus.B,. F.R.C.M., F.R.C.O.
VICE-DIRECTOR:—MR. R. DE H. TUPPER

Pianoforte

MR. WALTER HUNGERFORD
MR. HUGH MCEACHRAN, L.MUS.
MR. IRVIN COOPER, MUS.B.
MR. J. B. SPEIRS, L.R.A.M., A.R.C.M.
MISS EDITH JOHNSON
MR. JOHN J. WEATHERSEED, F.R.C.O.

Junior Pianoforte Department

MR. FRANK HANSON, MUS.B.
MISS GITA MILLER, L.MUS.
MISS JOYCE PICKUP, L.R.A.M., A.R.C.M.

Organ

MR. J. J. WEATHERSEED, F.R.C.O.

Singing

MR. WALTER CLAPPERTON, HON. A.R.C M.
MISS JEAN L. MILLAR
MR. VICTOR BRAULT
MR. RICHARD FULLER (on war service)

Sight Singing and Part Singing

MR. WALTER CLAPPERTON, HON. A.R.C.M.
MR. IRVIN COOPER, MUS.B.

Choral Study and Appreciation Class

THE DIRECTOR

Choral and Operatic Class

MR. WALTER CLAPPERTON, HON. A.R.C.M.

Pianoforte Accompaniment and Vocal Repertoire

MR. WALTER CLAPPERTON, HON. A.R.C.M.
MR. VICTOR BRAULT

Elementary and Higher Theory, Musical Dictation and Aural Training

THE DIRECTOR
MISS MARGARET BENNETT
MR. IRVIN COOPER, MUS.B.
MR. CLAUDE CHAMPAGNE
M. FRANK HANSON, MUS.B.

History, Aesthetics, Form and Analysis

THE DIRECTOR
MR. JOHN J. WEATHERSEED, F.R.C.O.

School Class Music
MR. IRVIN COOPER, MUS.B.

School Class Teachers' Training Course
MR. IRVIN COOPER, MUS.B.

Teachers' Methods and Materials
MR. FRANK HANSON, MUS.B.

Harmony and Counterpoint
THE DIRECTOR
MR. IRVIN COOPER, MUS.B.
MR. CLAUDE CHAMPAGNE
DR. ARTHUR H. EGERTON, F.R.C.O., Hon. A.R.C.M.

Composition and Orchestration
THE DIRECTOR
M. CLAUDE CHAMPAGNE

Violin and Viola
MR. M. ONDERET
MADAME J. R. GILBERT
MR. EUGENE SCHNEIDER

Violoncello
MR. RAOUL DUQUETTE
MR. JEAN BELLAND

Double Bass
MRS. G. PROBYN

Flute
MR. F. HARDMAN
MR. H. E. BAILLARGEON

Oboe
MR. REAL GAGNIER
MR. R. LUCKETT

Clarinet
MR. J. MORETTI

Bassoon
MR. R. DE H. TUPPER

French Horn
MR. J. E. MACDONALD

Trumpet
Mr. C. Van Camp

Trombone
Mr. E. Fowler

Tympani and Percussion
Mr. L. Decair

Conservatorium Orchestra
Mr. R. de H. Tupper

Conducting Class
The Director

Chamber Music and Instrumental Ensemble
The Director Mr. M. Onderet

Dalcroze Eurythmics
Mlle. Genevieve Bugnion

Modern Languages (Italian, French, German and Spanish)

By arrangement with the Romance and Germanic Languages Departments of the University, students in Music have special facilities afforded them for studying these languages.

Acoustics
The Director Prof. H. E. Reilley, M.Sc.

Physiology and Hygiene of the Voice
Dr. H. S. Birkett, C.B.

Extra-Mural Courses

Pianoforte and Violin classes are held in various schools throughout the City and vicinity, Information with regard to these can be obtained from the Secretary of the Conservatorium, who can also furnish the names of teachers in the City who prepare pupils privately for the McGill Local Centre examinations.

Physical Training
Dr. A. S. Lamb, B.P.E. Miss Iveagh Munroe, M.S.P.E., B.Sc., M.A.

(See Conservatorium Regulations, page 646.)

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10						Elementary Grade Theory Senior Grade Theory
10 to 11	Singing Class	Singing Class	Appreciation of Music	Singing Class	Singing Class	Junior Grade Theory Intermediate Grade Theory
11 to 12						Elementary—Junior Grade Theory
12 to 1					Conducting and Score Reading	
1 to 2					3rd Mus. B.	
2 to 3	1st Mus. B. Harmony	2nd Mus. B. Harmony			3rd Mus. B.	
3 to 4	1st Mus. B. Counterpoint and Canon and Fugue 2nd Mus. B. History	Orchestral Repertory and Score Reading (1) 2nd Mus. B. Counterpoint, Canon and Fugue 3rd Mus. B. History	2nd Mus. B. Form and Analysis Orchestral Repertory (2)	3rd Mus. B. Form and Analysis	3rd Mus. B.	
4 to 5	Elementary Grade Theory Highest Grade History Dalcroze Eurythmics	Highest Grade Form and Analysis	Junior Grade Theory 4.15 Intermediate Grade Theory	Aural Training (Junior) Highest Grade Harmony		
5 to 6	Aural Training (Senior)	Senior Grade Theory	1st Mus. B. History	Highest Grade Counterpoint 1st Mus. B. Form and Analysis		
6 to 7						
7 to 8	Singing Class	Keyboard Harmony Singing Class Acoustics	General Theory Class	Singing Class Special Teachers' in High School Course; Acoustics	Singing Class	
8 to 9	Dalcroze Eurythmics	Conservatorium Orchestra (2 hrs.)	Teachers' Methods and Materials Class 8.30 Appreciation of Music			

CALENDAR FOR 1940-41

1940

Mon.,	Sept. 16th	First day of session. Teaching begins in all branches of Practical Music.
Mon.,	Sept. 30th	Lectures in Sight Singing, Theory, Harmony, Counterpoint, History, Form and Analysis, Canon and Fugue, Transposition and Orchestration begin.
Sun.,	Oct. 6th	Founder's Day. (James McGill born Oct. 6th, 1744, died Dec. 19th, 1813).
Mon.,	Oct. 7th	Convocation.
Wed.,	Oct. 9th 4 p.m.	Inaugural address by the Director in the Conservatorium Hall to all students.
	8 p.m.	Presentation at the Royal Victoria College of Diplomas of Associateship and certificates gained in the examinations at the end of last session.
Mon.,	Nov. 11th	Remembrance Day. No lectures.
Sat.,	Dec. 21st	All lessons and classes end until after the Christmas vacation.

1941

Mon.,	Jan. 6th	All lessons and classes resumed.
Thurs.,	Feb. 6th	First Students' Recital in Conservatorium Hall.
Thurs.	Mar. 20th	Second Students Recital in Conservatorium Hall.
Mon.,	Mar. 31st	Last day for examination entries.
Fri., April 11th to Mon., April 14th (inclusive)		Easter Vacation.
Fri.,	May 2nd	Examinations in Theory begin (see page 674).

Mon.,	May	12th	Practical Examinations begin at the Conservatorium.
Tues.,	May	13th	Examinations in Higher Theoretical Music begin.
Sat.,	May	10th	Last day of Lectures.
Thurs.,	May	29th	Convocation.
Sat.,	June	7th	Last day of lessons. Conservatorium closes.

FACTS OF HISTORICAL INTEREST

1904, September 21st	First day of teaching at the McGill University Conservatorium of Music. (Dr. C. A. E. Harris, Director.)
1904, October 14th	Conservatorium formally opened by their Excellencies, Lord and Lady Minto, First Recital.
1908, October	Dr. Harry Crane Perrin takes up his duties as Director of the Conservatorium and first Professor of Music in McGill University.
1909, February 23rd	First Orchestral Concert.
1910, February 17th	First Choral Concert.
1910, April, May, June	First Local Centre examination throughout the Dominion.
1910, June 9th	First Mus. Bac. Degree conferred.
1911, May 12th	First Mus. Doc. Degree conferred.
1917,	Conservatorium endowed by Sir William Macdonald.
1918, May 1st	Resignation (owing to illness) of Sir William Peterson, K.C.M.G., as Principal of the University.
1920, April 26th	The Governors of the University constituted a Faculty of Music with Dr. Perrin as Dean of the Faculty.
1920,	General Sir Arthur Currie, G.C.M.G., K.C.B., appointed Principal of the University.
1921,	Two Music Scholarships founded as a memorial to the late Sir William Peterson.
1922,	Two Music Scholarships founded as a memorial to the late Sir William Macdonald.
1923,	Conservatorium building becomes the property of the University by deed of gift from Lady Strathcona in accordance with the wishes of her father, the late Lord Strathcona.
1929, September	Mr. Douglas Clarke takes up his duties as Director.
1930, September	Mr. Douglas Clarke appointed Dean of Faculty of Music.
1933, November 30th	The Principal, Sir Arthur Currie, died.
1935, October 5th	Mr. A. E. Morgan installed as Principal and Vice-Chancellor.
1938, January 7th	Mr. Lewis W. Douglas installed as Principal and Vice-Chancellor.
1940, January 12th	Dr. F. Cyril James installed as Principal and Vice-Chancellor.

PUBLIC EVENTS OF SESSION

The chief public events of last session were:—

1939

October 4th Presentation of certificates in the Royal Victoria College to candidates successful in the spring examinations.

November 3rd Scholarships were awarded as follows:—

Graduate Scholarships—
Violet Balestreri—Composition
and
Alexander Brott—Composition.

Peterson Memorial Scholarships shared by:
Sylvia Kennedy—Singing.
William Stevens—Pianoforte.
Mildred Goodman—Violin.
Sonia Pecmanova—Violin.

Macdonald Memorial Scholarships shared by:
Raffaele Masella—Clarinet.
Lois Hamblett—Pianoforte.
David Levenson—'Cello and degree work (theory)

Conservatorium Bursaries shared by:
D'Arcy Shea—Violin.
Samson Rosemarin—Violin.

Ellen Ballon Scholarship:
Frances Bornstein—Pianoforte.

1940

February 5th to 17th—Series of Lecture-Recitals by Miss Kathleen Parlow in Conservatorium Hall.

March 7th Concert by Conservatorium String Orchestra in Royal Victoria College.

March 13th Concert by McGill String Quartet in Moyse Hall.

March 20th Recital by Students in Conservatorium Hall.

April 1st Concert by McGill String Quartet in Moyse Hall.

April 4th Recital by Junior Students (Pupils of Miss Joyce Pickup and Mr. Frank Hanson) in Conservatorium Hall.

April 24th Concert by McGill String Quarter in Moyse Hall.

May 16th Recital by pupils of Mr. Maurice Onderet.

SESSIONAL ANNOUNCEMENT

The work of the Conservatorium of Music for the season 1940-41 will begin on September 16th, 1940, and will end on June 7th, 1941. It consists of three terms of eleven weeks each, with an additional summer term of three weeks, viz.:—

(a) September 16th to Nov. 30th.

(b) December 2nd to March 1st (Christmas vacation, December 21st to January 6th.)

(c) March 3rd to May 17th.
Short summer term if desired.

Lectures arranged in progressive courses are offered as forming part of a connected curriculum, leading to certificates and diplomas, as well as to degrees in Music in the University.

The lectures will begin in the last week of September and extend over three terms of ten weeks each, viz.:—

(a) September 30th to December 7th.
(b) December 9th to March 1st.
(c) March 3rd to May 10th.

The examinations in Montreal for certificates and diplomas will be held towards the end of the third term, i.e., from May 12th to May 24th. The Theoretical Examinations which precede the Practical Local Examinations will begin approximately May 2nd (see page 674).

ADMISSION

Students of the Conservatorium are admitted either as:—

Regular Students, taking an organized course, which includes individual instruction in a First and Second Subject, together with such classes and lectures as may be thought advisable by the Director, leading to the Diploma of Licentiate in Music or the Degree of Bachelor of Music in the University.

Partial Students, who, besides individual instruction in the one principal subject, have the privilege of attending certain classes. Instrumentalists are, at the discretion of the Director, assigned to certain of the following classes:—Theory, Harmony, History, Form and Analysis; Ensemble Playing. Vocalists are assigned to two of the following classes: Theory, Sight-Singing, Elocution and Diction, Choral Class.

Class Students, Those wishing to attend lectures or classes only in either theoretical or practical subjects.

FEES

CONSERVATORIUM OF MUSIC

The fees are as follows:—

Regular Students, $225.00 a year payable at the beginning of the session (not later than October 1st) or in two instalments of $115.00 each, payable before October 1st and January 15th, respectively. This sum also covers the fees for the Diploma or Degree Examination at the end of the year, as well as fees to Students' Societies, and charges for Physical Education—which is compulsory.

At the request of the students themselves and by the authority of the Senate, a fee of $20.00 is collected from all men undergraduates for the support of certain Student Societies, the use of the skating rinks and tennis courts during the session and for admission to the home games under the control of the Athletic Board. Women undergraduates pay a fee of $15.00. *These items, however, are covered by the regular fees in the case of undergraduates.*

Partial Students. $15.00 to $60.00 (according to instructor selected) per term of eleven weeks. Students paying in full for three terms of eleven weeks each are allowed to take the examination for a Local Centre Examination Certificate at the end of the year without any further fee.

Class Students. Fees vary between $5.00 and $25.00 per term, according to class. Precise information can be obtained on this point from the Secretary.

The fees for examinations for Certificates, when not included in the term fees as above mentioned, are the same as the fees for the Local Examinations. (See page 680).

In all cases fees must be paid strictly in advance at the office of the Conservatorium.

No individual or class lessons will be given to any student who is unable to produce a receipt showing that the necessary fees have been paid.

FEES FOR DIPLOMA AND DEGREE EXAMINATIONS

Diploma of Associate (A.Mus.)—Fees for examination, $15.00. Diploma fee, $2.50.

Diploma of Licentiate (L.Mus.)—Fees for examination, $45.00, of which $15.00 is payable at each examination. Diploma fee, $5.00.

Degree of Bachelor of Music (Mus.Bac.)—Matriculation fee, $10.00 (see General Announcement of the University). Fees for examinations payable as follows:—First examination in Music, $20.00. Second examination in Music, $20.00. Final examination in Music, $20.00. Graduating fee, $20.00.

Although under specia conditions exemptions from certain examinations for the Diplomas of Associate and Licentiate and Degree of Bachelor of Music may be allowed, there is no exemption from the *fees* given above, except in the case of candidates holding the requisite McGill Local Centre Certificates.

Degree of Doctor of Music (Mus.Doc.)—Fee $100.00, one-half of which ($50.00) is paid when submitting exercise and the balance ($50.00) before the final examination.

N.B.—Candidates examined in theoretical subjects connected with the above Degrees and Diplomas at centres other than Montreal will probably have to pay a local supervisor's fee in addition to the fees stated above.

CONSERVATORIUM REGULATIONS

1. Fees are not refunded, nor is the length of the term extended on account of temporary absence. Absence from lessons caused by prolonged illness may be allowed for, provided the Secretary is notified and a Doctor's certificate presented.

2. *No business matters can be arranged through the instructors, but must be transacted through the office.*

3. Students cannot register for less than a term and must notify the Secretary, at least a week before the end of the term, if they wish to discontinue lessons, otherwise it is understood that lessons will be continued through the following term and fees for the full additional term must be paid.

4. Any lessons missed in consequence of the instructor's absence will be made up at the mutual convenience of instructor and pupil. Lessons missed by students are their loss, unless a Doctor's certificate is produced, when lessons will be made up, but no fees will be refunded or remitted.

5. *All students must sign the attendance register in the office immediately after each lesson.*

6. Every student (except those attending schools) must, at the beginning of each session, *either* produce a medical certificate from his or her medical attendant *or* be examined by the Medical Officer appointed by the University. See General Announcement.

7. No student suffering from an infectious or contagious disease, or who is, in the opinion of a competent medical attendant, in any way brought into contact with any person infected with such disease, is allowed to attend.

8. Students are required to be punctual at lessons, lectures, concerts and examinations.

9. Notices on the bulletin boards are official, and students are requested to pay due attention to such as may be posted there.

10. No change in course or teacher can be made without first obtaining the consent of the Director.

11. Students are advised to take the sessional examination (the form of such examinations to be decided by the Director) and are prepared for the same by the instructor or instructors to whom they are assigned.

12. *Students wishing either to take part in any public musical performance, publish a composition, or accept a professional engagement, must first obtain the consent of the Director.*

13. The name of each lecture and the hours at which the classes are held will be posted on the notice boards.

14. *Registered students of the Conservatorium must take part in either recitals or concerts, if required to do so by the Director.*

15. Visitors are not allowed to be present during any lesson (class or private) except by permission.

16. The Director has the right to refuse or to cancel at any time the registration of any individual whose presence in the Conservatorium may appear detrimental to its interests.

17. Smoking within the building is absolutely prohibited.

18. Physical education is compulsory for all regular students of the first two years, two periods per week being devoted to it. No student is asked to do work unsuited to his or her physique, and students debarred from exercise of any kind are dealt with separately and carefully advised.

SCHOLARSHIPS

THE SIR WILLIAM PETERSON MEMORIAL SCHOLARSHIPS.—Established in 1921 by the University and by friends, graduates and pupils of the Faculty of Music. The interest upon the original endowment of $6,055 is used to support two scholarships in Music as a memorial to the late Sir William Peterson.

For further details consult the Secretary of the Faculty.

THE SIR WILLIAM MACDONALD MEMORIAL SCHOLARSHIPS.—Established in 1922 by the University. The interest upon the original endowment of $6,000 is used to support scholarships in Music as a memorial to the late Sir William Macdonald.

For further details consult the Secretary of the Faculty.

ELLEN BALLON PIANO SCHOLARSHIP.—Founded in 1928 by a gift of $1,500 from Miss Ellen Ballon, a graduate of the Conservatorium. The principal has been increased by a further gift of $750 from Miss Ballon. In making this award the Faculty takes into account the need as well as the ability of candidates.

For further details consult the Secretary of the Faculty.

UNIVERSITY BURSARIES

Full-time students studying for the Licentiate in Music or for the Bachelor of Music degree may apply for University Bursaries. For details see the separate Scholarships Announcement which may be obtained from the Registrar's Office.

REQUIREMENTS FOR DEGREES

(For Fees, see page 646)

For requirements for the degree of Doctor of Music, see page 720.

DEGREE OF BACHELOR OF MUSIC

All candidates for this degree must pass the following examinations:—

1. The Matriculation examination.
2. The First examination in Music (at the end of the first year).
3. The Second examination in Music (at the end of the second year).
4. The Final examination in Music (at the end of the third year).

A specimen set of papers for each of the three examinations in Music can be obtained from the Secretary, price 25c. each.

THE MATRICULATION EXAMINATION

The Matriculation Examination is held yearly, in June, at McGill University and at various centres throughout the Dominion. There is also an examination held in September, but at McGill University only. Candidates for musical degrees are examined in the following:—

1. English (two papers).
2. History (one paper).
3. Two of the following languages:—French, German, Latin, Italian, Spanish (two papers in each of the two languages chosen by the candidate).
4. Algebra or Geometry (one paper).
5. Music—one paper. The paper set is that of the Highest Grade (Harmony and Counterpoint) of the local theoretical examination in Music and must be taken by the candidate at the regular examinations held by the Conservatorium in May.

Further information with regard to this examination, and exemption therefrom through the possession of certain equivalent certificates, can be obtained from the Registrar of the University.

EXAMINATIONS IN MUSIC

The first and second practical studies are no longer required. In their place reading from open score is required in each part of the Mus.Bac. examination.

First Examination in Music

(a) Harmony in three and four parts.

(b) Strict Counterpoint up to three parts, answers to Fugue subjects, and Fugal Exposition in two parts.

(c) Form and analysis. Questions will be given on accent, cadence, metre, rhythm, phrasing, etc., and on the form of the pieces included in lists A and B of the Highest Grade Piano Local Centre Examinations.

(d) General outlines of musical history.

(e) Playing on the pianoforte from open vocal score (G & F clefs only).

(f) Viva voce.

Second Examination in Music

(a) Harmony in not more than four parts, choral and instrumental.

(b) Counterpoint (strict and free) in not more than four parts.

(c) Canon in two parts and fugal exposition up to four parts.

(d) History of music from the 16th century to the present day.

(e) Form and analysis. The candidate must show an intimate knowledge of a few compositions, the names of which will be supplied on application, at least three months before the date of examination.

(f) Elementary knowledge of acoustics or physiology of the voice.

(g) Playing on the pianoforte from string quartet score.

(h) Viva voce.

The possession of the Diploma of Licentiate of Music obtained either under Class I or Class III from McGill University exempts candidates from the necessity of taking the First and Second Examinations for Mus. Bac., and, accordingly, candidates can proceed direct to the Final Examination, provided that they have matriculated.

Final Examination in Music

(a) Harmony up to five parts.

(b) Free Counterpoint, up to five parts, in 16th century style.

(c) Double Counterpoint in 8ve, 10th and 12th.

(d) Canon and fugue in three and four parts.

(e) History of music from the earliest time to the present.

(f) Form and analysis. Knowledge will be required of such works as the following:—Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schumann's and Brahms' Songs; an Opera *or* an Oratorio; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn, Wagner, besides contemporary works. Candidates may, at least three months before the examinations, obtain from the Secretary of the Faculty of Music a complete list of the works upon which the examination papers in this subject will be based.

(g) Instrumentation. A knowledge of the compass and capabilities of all instruments in the modern orchestra and the scoring of a given passage in a given time; also the reading at sight from an easy score of a classical composer.

(h) Two compositions to be sent in by a candidate, to be received by the Secretary of the Examining Board not later than the last day of the second week in April. One to be an unaccompanied vocal work (not an anthem) showing considerable vocal resource; the other to be a work for strings, or combination of not less than four instruments or full orchestra. The works may be in any form and the instrumental composition should take not less than seven minutes to perform. Candidates, when submitting their compositions, must send at the same time, a signed statement to the effect that the works are their own unaided efforts.

(i) Viva voce.

REQUIREMENTS FOR THE DIPLOMA OF LICENTIATE IN MUSIC

(For Fees, see page 646)

Candidates may elect to be examined either in:—

Class A—Theoretical Subjects and Composition, or

Class B—Practical Subjects as Performers, or as

Class C—Teachers in both Theory and Practice.

CLASS A—THEORETICAL SUBJECTS AND COMPOSITION

First Examination

(a) Advanced Rudiments, including Sight Reading and Ear Tests.

(b) The Harmony and Counterpoint paper of the Highest Grade Local Centre theoretical examinations.

(c) History and Form and Analysis paper of the Highest Grade Local Centre theoretical examinations.

Second Examination

Requirements a, b, c, and d are the same as those for the First Examnation for Mus. Bac. (See page 649).

(e) Composition of a song (or two short songs) or a miniature suite for piano (or piano and violin, or any other combination), or an arrangement for S.A.T.B. (unaccompanied) or three female voices (accompanied or unaccompanied) of any genuine folk-song. *The parts must show character and independence.* The M.S. must be in the hands of the Secretary of the Examining Board, McGill Conservatorium of Music, Montreal, not later than the last day of the second week in April.

Third Examination

Requirements a, b, c, d and e are the same as those of the Second Examination for Mus. Bac. (See page 649).

(f) Practical work on pianoforte or organ. The requirements are those of the Senior Grade of the practical local examinations. Exemption from this test may be claimed if candidates possess certificates showing that they have passed that examination.

(g) Composition of (1) a movement in Sonata form (for either pianoforte, or organ, or violin and pianoforte, or any other combination); or (2) a Chorus with independent accompaniment for strings or some combination of orchestral instruments (*not an anthem*); *or* (3) an extended composition for strings. This must be received by the Secretary not later than the last day of the second week in April.

(h) Viva voce.

CLASS B—PRACTICAL SUBJECTS AS PERFORMERS

First Examination

Candidates are required to pass Senior Grade of the Local Centre examination in Theory. (See page 681).

and

(a) Easy Transposition Tests (for instrumentalists only).

(b) Diction in respect of Modern Languages (for singers only).

(c) Practical work either as Vocalist or Instrumentalist, in Principal Study, the requirements of which will be those of the Highest Grade of the practical local examinations. Candidates will be asked questions on the form of the works presented, as well as questions relating to keys and modulations.

Second Examination (Semi-Final)

The requirements for candidates whose chief study is either pianoforte, or violin, or violoncello, or organ, or singing, are found under separate headings.

PIANOFORTE

(No written examination)

1. *Scales.*

Major, minor (both forms) and chromatic scales at the distance of 8ve, 3rd, and 6th through four octaves; also in double 3rds (in similar motion only) and double 8ves through two octaves.

The candidates must be prepared to play all the above-mentioned scales in all keys, in either similar or contrary motion, beginning on either the highest or lowest notes, and with either legato or staccato touch (double 3rds in similar motion only).

2. *Arpeggios.*

Common chords, with hands commencing either an 8ve, 3rd, 6th, or 10th part, in similar and contrary motion, also common chords in double octaves, legato and staccato, beginning on either the highest or lowest notes; dominant and diminished 7ths in similar motion an octave apart or at any inversions or interval; in contrary motion commencing either on the same note and working outwards, or on the extreme notes and working inwards. Also double octaves.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semi-tone above or below.

5. *Performance.* (Extra marks will be given for playing from memory.)

(a) One of the following Preludes and Fugues:—

Prelude and Fugue No. 12 in F minor—Book I
No. 19 in A major—Book I
No. 5 in D major—Book II
No. 10 in E minor—Book II
..... BACH

or

French Suite No. 1 in D minor..... BACH

(b) Variations on a Hungarian Song—Op. 21 No. 2
or
Variations on a theme by Schumann—Op. 9
..... BRAHMS

or

24 Variations in D Major on "Vieni amore" by Righini—
BEETHOVEN

(c) Etudes: Op. 25, Nos. 1 or 9, or
Op. 10, Nos. 3 or 5
or
Nocturnes Op. 15 No. 2 or Op. 48 No. 1, or
Op. 9 No. 3
..... CHOPIN

(d) Ragamuffin..... JOHN IRELAND
or Preludes 14 (E flat minor *and* 18 (F minor) of 24 Preludes—
Op. 11..... SCRIABIN
or Danse profane (from Two Dances—(1) Danse sacrée,
(2) Danse profane..... DEBUSSY

(e) A piece of the candidate's own choice.

6. Questions will be asked on the general outlines of form shown in the pieces and also on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLIN

(No written examination)

1. *Scales.*

Any major or minor scales, selected by the examiners in thirds, sixths, and octaves, one note to each bow, through two octaves. Also any of the ordinary scales through three octaves with various bowings. Chromatic scale starting from F in the first position (D string) through two octaves.

2. *Arpeggios.*

All major and minor chords throughout three octaves, and in octaves throughout two octaves. Dominant sevenths and diminished sevenths in all keys throughout three octaves.

3. *Reading at Sight.*

4. *Performance.*

Candidates must prepare any one Etude from each of the following composers:—Kreutzer, Fiorillo, Dont, Gavinies, and Rode, and also play one of the following Sonatas:—

Sonata in A (Op. 100).....BRAHMS
Sonata in A minor (Op. 105).....SCHUMANN
Concerto in E major.....BACH

5. *Questions.*

Questions will be asked on the general outlines of form shown in the studies and pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLONCELLO

(No written examination)

1. *Scales.*

Major, minor (melodic form), and chromatic scales in all keys.

2. *Arpeggios.*

Studies Nos. 10 and 15.....J. L. DUPORT
Any two studies.....DOTZAUER
(From 24 Daily Exerciess. Augener.)

3. *Reading at Sight.*

4. *Performance.*

Candidates must be prepared to play one piece from any two of the following groups—two items in all:—

(a) Suite No. 1 ..... J. S. BACH

(b) Sonata in E minor (Op. 38) ..... BRAHMS
(1st movement only) or
Sonata in F (Op. 99) ..... BRAHMS
(1st movement only) or
Sonata in A major (Op. 69) ..... BEETHOVEN
(The whole)

(c) Also any two of the following pieces:—
Seven Variations on a Theme from "The Magic Flute" (Op. 66) ..... BEETHOVEN
Two Poems ..... HUGO ANSON
(Oxford University Press)
Slumber Song (arr Harvey Grace) ..... BACH
(Oxford University Press)
Five Irish Folk Tunes ..... HOWARD FERGUSON
(Oxford University Press)

5. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS

Requirements will be forwarded to candidates on application to the Secretary, 677 Sherbrooke Street West, Montreal.

ORGAN

(No written examination)

1. *Scales.*

(a) Manuals only (with both hands).

(b) Pedals only.

(c) One hand only with pedals, at varying degrees of speed and beginning with either the highest or lowest note.

In the case of (a) and (c) contrary motion may be required.

2. *Arpeggios.*

(a) For pedals through two 8ves; common chords, major and minor in keys of C, D, D flat, E flat, E, and F.

(b) One hand and pedals combined, in contrary motion.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semitone above or below.

5. *Performance* of either List A or List B.

List A.

BUXTEHUDE: Prelude and Fugue (Ed. Ley) (Oxford University Press). No. 14 in G minor.

BACH: In Dulci Jubilo: (Book XV, page 26). (Novello or Peters 244).

STANFORD: No. 6 of 6 Preludes and Postludes, 2nd set Op. 105. (Stainer & Bell).

List B.

BACH: Vivace from Trio Sonata in D Minor No. 3. (Novello or Peters).

MENDELSSOHN: Last Movement 5th Sonata. (Any edition).

FRANCK: Prelude Fugue and Variation (B. minor). (Peters 3744A).

6. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

SINGING

(No written examination)

1. *Scales and Technical Exercises.*

Major, minor, and chromatic scales at varying degrees of speed.

(For example, see Randegger's Singing Primer, pages 38, 41 and 48.) Also any six of the technical exercises given on pages 161 to 169 of the same work, selected according to voice.

2. *Arpeggios.*

See Randegger's Singing Primer, pages 102, 104 and 107.

3. *Reading at Sight.*

4. *Performance.*

Studies.

Soprano or Tenor—Any two from No. 1 to No. 17, Fourth Series. Part I. 30 Solfeggios.....VITTORIO RICCI

Alto or Bass—Any two from No. 1 to No. 17, Fourth Series. Part II. 30 Solfeggios.....VITTORIO RICCI

Medium Voices—Any two from No. 1 to No. 17, Fourth Series. Part III. 30 Solfeggios.....VITTORIO RICCI

The selection of the pieces to be rendered in this examination is left to the candidates, who must, however, choose music of the following character:—

(a) One or two specimens of Recitative.

(b) Two arias from an Oratorio or Oratorios,
or
Two arias from an Opera or Operas.

(c) One song by any of the following composers:—SCHUMANN, SCHUBERT, FRANZ, BRAHMS, LOEWE, PARRY, ELGAR, WOLF, HENSCHEL, STANFORD, SCOTT, IRELAND.

(d) One song by any of the following composers:—BALAKIREFF, GRIEG, HAHN, SIBELIUS, ARMSTRONG GIBBS, HOLST, VAUGHAN-WILLIAMS.

(e) One or two specimens of Folk Song from "A selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

N.B.—The selection made will be taken as an indication of the candidate's taste.

5. *Questions.*

Questions may be asked as to the style of the pieces selected and the modulations or keys through which the music passes, etc.

Questions may be asked on the more advanced rudiments of music.

THIRD EXAMINATION (Final)

The requirements for candidates whose chief study is either Pianoforte, or Violin, or Violoncello, or Organ, or Singing, are found under separate headings. There is no written examination.

PIANOFORTE

1. *Transposition Test.*
   The transposition of a passage a tone above or below.

2. *Sight Reading Test.*

3. *Questions.*
   Questions will be asked on musical history from the 16th century to the present day, form as shewn in the works presented as well as general musical knowledge.

4. *Performance.*
   One of the specified items from each group to be prepared:

   (a) Prelude and Fugue in F sharp major } Bk. I
   Prelude and Fugue in C sharp major }
   Prelude and Fugue in A flat major } Bk. II
   Prelude and Fugue in D sharp minor }
   Prelude and Fugue in C sharp minor }
   French Suites Nos. 4, 5 or 6 } ..... BACH
   Fantasia and Fugue in G minor ..... BACH-LISZT

   (b) Any *two* of the following Etudes: Op. 10, Nos. 1, 2, 7, 8; Op. 25, Nos. 6, 8, 10, 11 ..... CHOPIN

   (c) Concerto No. 5, Op. 73
   Sonata in E, Op. 109 ..... BEETHOVEN
   Sonata in E flat, Op. 81a
   Sonata in B minor ..... CHOPIN
   Sonata in G minor Op. 22 ..... SCHUMANN

   (d) Variations on "O Mistress Mine" (Novello) ..... BYRD
   Variations in A ..... GLAZOUNOW
   (Omitting variations 4, 5, 12)
   Ballade in D major, Op. 10, No. 2 ..... BRAHMS
   Scherzo in E flat minor ..... BRAHMS
   Etudes Symphoniques
   (Theme and any three Etudes) ..... SCHUMANN

   (e) Reflets dans l'eau ..... DEBUSSY
   L'Isle Joyeuse ..... DEBUSSY
   Poissons d'Or ..... DEBUSSY

(Continued overleaf)

Special Note.—In place of a selection from sections (d) and (e) the candidates may present César Franck's Prelude, Choral and Fugue.

(e) Continued.

Bourrée Fantasque.....CHABRIER
(Enoch & Sons)
Ondine.....RAVEL
Sonatine.....RAVEL
Rhapsody.....JOHN IRELAND
A Reel, No. 4 of Four Irish Dances (Stainer & Bell).....STANFORD-GRAINGER

(f) A piece of the candidate's own choice.

NOTE.—Candidates must be prepared to play some, if not all, of these from memory.

5. *Examination in Second Study.*

Certificates gained in any of the three higher grades of the local practical examinations exempt candidates from this test, whether the subject chosen is Organ or Violin, or Violoncello, Singing or Wind Instrument.

VIOLIN

1. *Sight Reading Test.*

2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

3. *Performance.*

One piece to be selected from each of the following groups:—

(a) Chaconne.....BACH
Sonata in G minor.....BACH
(For violin alone, Prelude and Fugue only.)

(b) Sonata in G major, Op. 30.....BEETHOVEN
Sonata.....DEBUSSY
Sonata.....RAVEL
Sonata in A.....CÉSAR FRANCK
Sonata in A minor.....JOHN IRELAND
(Winthrop Rogers)

(c) Concerto (last movement).....BRAHMS
Concerto (first movement).....ELGAR
Concerto in D minor (first two movements).....MAX BRUCH
Concerto No. 4 in D major.....MOZART
(First two movements; Joachim's Cadenza)
Concerto in A minor Op. 73.....GLAZOUNOV
First *or* second movement.

(d) Spanish Suite: Suite Espagnole ..... NIN
Nigun—Improvisation ..... ERNEST BLOCH
La Fontaine d'Arethuse ..... SZYMANOWSKI
Variations ..... JOACHIM

4. *Examination in Second Study* (which must be the Pianoforte).
Certificates gained in any one of the three highest grades of the local practical examinations in pianoforte exempt candidates from this test.

VIOLONCELLO

1. *Reading at Sight.*

2. *Questions.*
Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

3. *Performance.*
Sonata in D (for 'cello alone) ..... DONALD TOVEY
Sonata in F major (Op. 99) ..... BRAHMS
(First movement)
Sonata in E minor (Op. 38) ..... BRAHMS
(Last movement)
Spanish Nocturne ..... E. GOOSSENS
(Pub. by Hawkes & Son)
Concerto (Op. 85) ..... ELGAR
Sonata (last movement) ..... DELIUS

4. *Examination in Second Study* (which must be the Pianoforte).
Certificates gained in any one of the three highest grades of the local practical examinations exempt candidates from this test.

ORGAN

1. *Transposition and Modulation Tests.*
The transposition of a passage into another key not exceeding a tone above or below. Modulation—Candidates are advised to make their modulation musically and not only mathematically correct.

2. *Sight Reading Test.*

3. *Questions.*
Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

4. *Performance.*

Of one piece from each of the following lists:—

(a) Prelude and Fugue in G major.....BACH
(Book VII Novello)
Prelude and Fugue in E flat major.....BACH
(Book VI Vol. II Novello)
Fantasia and Fugue in G minor.....BACH
(Novello VIII or Peters)
Prelude and Fugue in C minor.....VAUGHAN WILLIAMS
(Oxford University Press)

(b) Sonata in E minor No. 8 (Op. 132).....RHEINBERGER
(Novello)
Sonata in C sharp minor.....HARWOOD
(Schott)
Sonata Britannica No. 3 Op. 152.....STANFORD
(Stainer & Bell)
Sonata in G major Op. 28.....ELGAR
(Breitkopf & Hartel)
Sonata in G minor Op. 28.....PIUTTI
(Peters)

(c) Dithyramb.....HARWOOD
Toccatina on "Corde Natus" (Augener).....EAGLEFIELD HULL
Concert Fantasia on "Hanover" (Novello).....E. LEMARE
Vorspiel and Liebestod (arr: J. E. West).....WAGNER
(Novello)
Choral in E.....FRANCK
Choral in B minor.....FRANCK
(Peters or Durand)
Introduction and Passacaglia.....ALCOCK
(Oxford University Press)

5. *Short Extemporization on a Given Theme.*

6. *Examination in Second Study.*

Certificates gained in any one of the three highest grades of the local practical examinations exempt candidates from this test, whether the subject chosen is either Pianoforte, or Violin, or Violoncello, Singing, or Wind Instrument.

SINGING

1. *Performance.*
   (a) Studies.
   Soprano or Tenor—Any two from No. 18 to the end of the Fourth Series, Part I, of 30 Solfeggios.....VITTORIO RICCI
   Alto or Bass—Any two from No. 18 to the end of the Fourth Series, Part II, of 30 Solfeggios.....VITTORIO RICCI
   Medium Voices—Any two from No. 18 to the end of the Fourth Series, Part III, of 30 Solfeggios.....VITTORIO RICCI
   (b) The principal solo work from an opera or oratorio.
   (c) Not less than three songs in various languages to exemplify proficiency in diction.

2. *Sight Reading Test.*

3. *Questions* on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

4. *Chief Study.*
   The studies by Vittorio Ricci must be prepared by all candidates, but as types of voices and capabilities of vocalists differ so much, it is impossible to specify satisfactorily other work on which any individual candidate will be examined. The Examination Board is prepared to accept in the Final Examination any works on which a correct judgment can be formed as to whether the candidate shall, after examination, be awarded the Diploma:—
   (a) As soloist for Concert Work only.
   (b) As soloist for Light Opera.
   (c) As soloist for Grand Opera.
   (d) As soloist for Oratorio.
   (e) As soloist for a combination of any of these.
   Candidates must submit to the Board of Examiners, through the Secretary, a list of works which they propose to present for the Final Examination.

5. *Second Study* (which must be the Pianoforte).
   Certificates gained in any one of the three highest grades of the local practical examinations for Pianoforte exempt candidates from this test.
   The ability of candidates to play their own accompaniments on the pianoforte to the vocal work prepared by them for the examination together with the reading of a song accompaniment at first sight will be accepted as second study.

CLASS C. TEACHERS' EXAMINATION (THEORY AND PRACTICE)

First Examination

(Partly written and partly viva voce)

Candidates are required to pass the Highest Grade of the Local Centre examinations in Theory. (See page 680).

Chief Subject.

Candidates will be expected to show sufficient executive ability to perform the technical work, studies and pieces contained in the list for the current year's local examination in the Highest Grade. (Total exemption from this examination can be claimed if candidates can produce certificates of having previously passed the Highest Grade, theoretical, and the Highest Grade, practical, of the local examinations.)

N.B.—Sight reading tests and ear tests will be given in each part of this examination.

Second Examination (Semi-Final)

(Partly written and partly viva voce)

1. Harmony in three and four parts up to chords of the 9th, including suspensions and use of passing notes. Special attention is paid to the three-part writing.
2. Counterpoint in two parts.
3. General outlines of Musical History.
4. The principles of Elementary Form and Analysis.
5. Chief Study.

Pianoforte.

For Scales, Arpeggios, reading at sight and transposition the requirements are the same as those for performer. (See pages 652 and 653.)

Performance.

Three Part Inventions.....BACH
Nos. 3 D major *and* 4 D minor.
or
Nos. 11 G minor *and* 12 A major.
(Tonmeister Edition)

and one of the following Preludes and Fugues

Preludes and Fugues No. 5 in D Book II
No. 20 in A minor Book II } .....BACH

and all of the following:—

Sonata in A flat, Op. 110.....BEETHOVEN
Ballade in B major and minor, Op. 10 No. 3.....BRAHMS
Idylle (pub. Enoch, Paris).....CHABRIER
Chelsea Reach.....JOHN IRELAND
(Augener)

(For Violin, Violoncello, Singing, Organ, etc., the requirements are those of the Semi-final Performer.)

Viva Voce.

Questions will take the following form:—

(1) On the position and action of hands, arms and fingers and on the use of the pedal.

(2) On the teaching of scales (in single notes) and arpeggios. (N.B. In Nos. 1 and 2 no arbitrary or doctrinal opinion will be held by the examiners. Any good method will be acceptable.)

(3) To finger certain technical passages presented by the examiner to the candidate.

(4) Questions will be asked on the general outlines of form shown in the pieces and on the contents of "The Growth of Music"—Part 3 by H. C. Colles, Published by the Oxford University Press.

N.B.—Outline of questions likely to be asked in connection with Violin, Violoncello, Singing and Organ may be obtained from the Secretary of the Conservatorium.

6. Second Study.

The requirements are similar to those of the Senior Grade of the local examinations.

If the candidate's chief study is Singing, Pianoforte Accompaniment will be accepted as second subject.

THIRD EXAMINATION (FINAL)
(Written Examination)

1. Harmony in not more than four parts.
2. Counterpoint (strict and free) in not more than four parts.
3. Fugal Exposition in three parts.
4. History of Music from the 16th century to the present day.
5. Form and Analysis.
6. A paper on elementary Physiology of the Voice or on Acoustics.
7. A paper on the Art of Teaching of the candidate's chief subject.

Special Note.—This paper will consist of *set questions* based on the following:—

Candidates will be required to give names of Studies and Pieces with their Composers from classical or standard work, of differen degrees of difficulty suitable for special purposes.

To answer questions on method and procedure in teaching.

To finger and phrase given passages.

Questions on Rhythm, Technique.

To give outlines of work for specific periods of Study.

Memorization and Appreciation.

To show such general knowledge, both musical and technical, might be expected of a reasonably equipped music teacher.

VIVA VOCE EXAMINATION

Requirements will be found under a separate heading corresponding to the candidate's chief subject.

PIANOFORTE

1. (a) To answer questions on the teaching of double notes (3rds and 6ths) and double octaves, legato and staccato.

   (b) To answer questions on:—
   Production of tone,
   Phrasing,
   The playing of ornaments,
   Interpretation,
   Use of the pedals.

   (c) To finger certain technical passages presented by the examiner to the candidate.

   (d) To show an adequate knowledge of pianistic literature.
   (Questions here will embrace the works of Bach, Beethoven, Chopin, Schumann, Brahms, Debussy and Ravel.)

N.B.—Books recommended for reading "Technique and Expression" Franklin Taylor (Novello), and "Musical Interpretation" Tobias Matthay.

The History of Pianoforte Music (Westerby) and the various volumes of "The Pilgrim Series" (Oxford University Press).

2. Candidates must be prepared to play the following:—

   (a) Suite No. 2 in F (Tonmeister Ed.) ..... HANDEL
   or
   French Suite No. 1 in D minor ..... BACH
   or
   Prelude and Fugue in A minor (Book I) ..... BACH

   (b) Sonata No. 23 in C (The English) (Augener) ..... HAYDN
   or
   Sonatas—Op. 28 (in D major), or
   Op. 31 (in E flat), or ..... BEETHOVEN
   Op. 78 (in F sharp major)
   or
   Sonata in E minor Op. 7 ..... GRIEG

   (c) Capriccio—Op. 76 No. 1
   Op. 76 No. 2 } Any two ..... BRAHMS
   Op. 76 No. 8
   or
   Fantasies Op. 116 (any two) ..... BRAHMS
   or
   Ballade Op. 118 No. 3 (G minor) ..... BRAHMS
   or
   Intermezzo Op. 119 No. 2 ..... BRAHMS

(These are all in the Brahms volume Book 2 published by Peters.)

(d) Christmas Pastoral (transcribed by Clarence Lucas).....BACH
(Oxford University Press)

and

Nocturne No. 5 in F sharp
Nocturne No. 18 in E } either.....CHOPIN

or

Zigeuner-Novelle Op. 38 No. 3.....POLDINI

or

The Scarlet Ceremonies (from "Decorations").....JOHN IRELAND
(Augener)

or

Variations on a Lettish Theme Op. 6.....JOSEPH WIHTOL

(e) A piece of the candidate's own choice by a modern English, French or Russian Composer.

3. Sight Reading Test.

VIOLIN

1. To demonstrate method of finger-training and bowing, posture and fingering, also to finger and bow certain passages, if required.
2. Should the Examiner desire it, the candidate must be prepared to give a student (who is not a pupil of the candidate) a specimen lesson, correcting, if necessary, any errors in bowing, intonation, posture, fingering, etc., and to answer questions and offer suggestions on the work after the student has retired.
3. To differentiate between mechanical and æsthetic expression.
4. To show ability to accompany on the pianoforte.
5. Candidates must be prepared to play any two Studies chosen by themselves from each of the following:—KREUTZER, FIORELLO, RODE, ROVELLI and GAVINES.
6. Performance.
   (a) Any of the ten
   Sonatas for Violin and Pianoforte.....BEETHOVEN
   or Sonata in A.....VIVALDI
   or Sonata in A minor (Op. 105).....SCHUMANN
   or Sonata in A (Op. 100).....BRAHMS

   (b) Any one of the following Concertos may be selected by the candidate:—
   BEETHOVEN, MENDELSSOHN, ERNST in F sharp minor, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKY, SAINT-SAENS in B minor, BRAHMS, ELGAR, WIENIAWSKI, BRUCH, LALO.

   (c) Romance in E minor.....SINDING
   or
   Havannaise.....SAINT-SAENS
   or
   Rhapsodie Piedmontèse.....SINAGAGLIA
7. Sight Reading Test.

VIOLONCELLO

See under Violin for requirements 1, 2, 3, 4 and 7.

Candidates must be prepared to play:—

Nos. 11, 16 and 20 Studies.....DUPORT
And any two Studies.....DOTZAUER
(From 24 Daily Studies)
Any one of the five Sonatas (selected by the candidate)..BEETHOVEN
To show a general knowledge of the Six Suites.....J. S. BACH
Symphonic Variations.....BOËLLMAN
Romance.....WAGNER-POPPER

ORGAN

1. To demonstrate method of instruction for overcoming difficulties in pedal technique, clear part playing, independence of hands and feet, position of body, stop management, etc.
2. To answer questions as to the causes of difference of tone between the various stops.
3. To explain the principles of pedalling and mark passages submitted to candidates for that purpose.
4. To be prepared to play one of the following groups and one piece of his own choice:—

(a) Sonata No. 2 in C minor.....BACH
(Book IV Novello)
Chorale in A minor.....FRANCK
Psalm Prelude No. 1.....HOWELLS
(Novello)

(b) Sonata No. 5 in C major.....BACH
(Book V Novello)
Prelude on Jesu, meine Freude—(Op. 65—No. 38)...KARG-ELERT
Largo Sostenuto (from a Sea Symphony)..VAUGHAN WILLIAMS
(Stainer & Bell)

(c) Chorale Prelude—Herr Jesu Christ, dich zu uns wend.....BACH
Sonata No. 1.....MENDELSSOHN
Prelude on Vexilla Regis.....BAIRSTOW
(Augener)

5. Sight Reading Test.
6. To extemporize and transpose.

SINGING

1. To demonstrate method of instruction in proper methods of breathing, tone, attack, evenness of tone, intonation, expression, overcoming of awkward breaks, resonance, facial expression and posture.

2. To read (at the pianoforte) a simple accompaniment at sight, a also transpose within the limits of a major second above or belo

3. In passages given by the examiner, to phrase or insert breath mark

4. Candidates must be prepared to give illustrations of Recitative, So singing in Opera or Oratorio, and to sing one song of any one co poser in each of the following three groups:—

   (a) BACH, HANDEL, MOZART, BEETHOVEN, SCHUBERT, SCHUMANN.

   (b) FRANZ, BRAHMS, LOEWE, WOLF, STRAUSS, PARRY, ELGAR.

   (c) BALAKIEREFF and DEBUSSY, DELIUS, HOLST, VAUGHAN-WI LIAMS, PETER WARLOCK, RAVEL.

   (d) Any Folk Song from "A Selection of Collected Folk Song arr. by C. SHARP and VAUGHAN-WILLIAMS (Novello).

5. Sight Reading Test (Vocal).

DIPLOMA OF ASSOCIATE IN MUSIC

(For Fees, see page 646)

There are two classes of this Diploma.

(a) Teachers' Class.

(b) Performers' Class.

The requirements are:—

Class A—Practical: Highest Grade Local Centre Examinatio (see pages 682 and 683).

Theoretical: Highest Grade Local Centre Examinatio (see pages 680 and 681).

In addition questions on teaching will be asked.

Class B—Practical—Semi-final Licentiate (Performers' Clas (see pages 652 to 657).

Theoretical: Senior Grade Local Centre Examinatio (see page 681).

EXAMINATION FOR CERTIFICATE AS ELEMENTARY SCHOOL MUSIC TEACHER

FEE $10

Candidates must be in possesion of a certificate showing they have passed the Intermediate Grade in Pianoforte and Junior Grade in Theory of McGill Local Examinations in Music.

The examination will consist of two parts, (a) Theoretical, and (b) Practical. Both parts are conducted in Staff notation. Any method based upon the Movable Doh principle for Pitch, and using the time-names in teaching Rhythm, is acceptable.

The following books are recommended:—

"The Training of Children's Voices".....CARROL
(Published by Forsyth)

"Aural Culture," Parts I, II, and III.....MACPHERSON AND READ
(Published by J. Williams)

"The Teaching of Music".....WHITE
(Published by Constable)

(a) Theoretical.

The written test will include questions on the principles and practice of teaching (1) Class singing, (2) Ear training, (3) Musical Appreciation, and (4) Management.

(1) The child's voice, sight-singing, notation, songs.

(2) Perception of pitch, musical dictation, rhythmics.

(3) Discriminative listening; aims, material, means, procedure.

(4) Organization, classroom technique, musical defects, standards, attitudes towards the subject, conditions and other factors.

(b) Practical.

NOTE.—Any of the vocal tests may be transposed to a pitch suitable to the candidate's voice.

1. Sight Singing, unaccompanied.

(a) A melody test in the major mode, modulating to the dominant or subdominant key, containing chromatic notes stepwise, and having no shorter notes than a quaver (eighth note). To be sung twice to syllables, and then vocalized to "nee" or "la."

(b) A melody test in the minor mode, containing the raised sixth and seventh. To be sung to syllables, not vocalized.

(c) A rhythm test in simple or compound time, containing pulse-divisions in ordinary use. To be sung on a monotone, once to the time-names and once to a neutral syllable.

2. Ear Training.

   (a) Melody. To write from dictation a short diatonic phrase of about six notes in the major mode, played slowly three times. The key will be named by the examiner, and the pitch established immediately before the test is played.

   (b) Harmony. Distinguish major and minor common chords, root position, played in various ways, p, f, close, extended.

3. Songs.

   (a) Pattern. Sing two (unison) school songs, selected and prepared by the candidate. One must be sung unaccompanied, candidate pitching the key from a given treble C.

   (b) Conducting. Conduct a two-part song as the voice parts are played, correcting errors in time and tune, and give directions as to rendering. Candidate will be given a short time to peruse the composition in advance.

4. Teaching.

   Give a short lesson on some ordinary class-singing topic. Answer questions bearing upon school music.

EXAMINATION FOR CERTIFICATE AS HIGH SCHOOL MUSIC INSTRUCTOR

FEE $15

Candidates must possess the Senior Grade certificate in Pianoforte playing and Senior Grade in Theory of the Local Examinations in Music, McGill.

The examination will consist of two parts (a) Theoretical, and (b) Practical. Staff Notation only is required. Any method based upon the Movable Doh principle of sight-singing is acceptable. A knowledge of the time-names in teaching Rhythm is expected.

The following books are recommended:—

"Aural Culture," Parts I, II and III.....MACPHERSON AND READ

"The Class-singing Teacher".....FIELD HYDE

(Both published by J. Williams)

"Music in the Junior High School".....BEATTIE ET AL.

(Published by Silver, Burdett)

"Music and the Community."

(Published by the Cambridge University Press)

"An Introduction to Music".....BERNSTEIN

(Published by Prentice-Hall)

(a) Theoretical.

The written paper will include questions on High School music education; the work of the specialist-teacher in music; various musical activities in High Schools; organization, management, etc.

1. School Course.

   (a) Class singing (boys, girls, mixed). Adolescent voices, sight-singing, ear-training, songs.

   (b) Appreciation; aims, material, gradation, presentation.

2. Extension.

   (a) Elective courses; vocal, instrumental, theoretical, Music credits

   (b) Voluntary music; choirs, orchestra, band, assembly, etc.

NOTE.—Questions will be asked on the subject-matter and on class teaching. An intimate technical knowledge of every instrument which might be included in Section 2 is not expected.

3. General.

   Administration, conditions, problems; classroom management; pupils' attitude, options, individual guidance; musical projects, school interest; other similar matters.

(b) Practical.

NOTE.—Any of the vocal tests may be sung at a pitch convenient to the candidate. Tests in Section 1 are unaccompanied.

1. Sight Singing.
   (a) A melody test in the major mode, modulating, containing fairly easy chromatic intervals, without involved or very rapid rhythmic difficulties. To be sung twice to syllables, and finally to "nee" or "la."
   (b) A melody test in the minor mode, with transition to the relative major key. To be sung twice to syllables, then vocalized.
   (c) A test in rhythm, containing syncopation or any pulse-divisions suitable for part-singing. To be sung on a monotone to a neutral syllable. Two attempts allowed; time-names may be used for the first trial.

2. Ear Training.
   (a) Dictation. The key, time, and pitch being given, write from dictation a short melody containing the sharpened 4th, or flattened 7th, with each rhythm: or, a test of similar difficulty, in the minor mode containing the leading-note. The test will be played slowly three times.
   (b) Harmony. Identity by ear major and minor chords and dominant 7ths played in various ways (p. f, close, extended, broken).

3. Songs.
   (a) Pattern. Sing two songs, an art song and a folk song, chosen by candidate, while playing the accompaniment.
   (b) Conducting. Conduct a part song as the voice parts are played, correcting errors and giving suggestions as to rendering. An opportunity will be afforded to peruse the composition before the test.

4. Keyboard Harmony.
   Ability to play short progressions, using diatonic chords and their inversions.

5. Teaching.
   Demonstrate points of teaching, and discuss questions bearing upon High School music.

NOTE.—In addition to the text-books mentioned above, the following are also recommended for reading:—
"A Child's Path to Music," by E. Allen (Forsyth).
"Music and Its Appreciation," by S. Macpherson (J. Williams).

SCHOOL MUSIC COURSE

A course in the principles and practice of School Music is offered This course is designed for the training of specialist-teachers in Elementary and High Schools. The subjects include organization, management, methods, sight-singing, ear-training, voice, conducting, appreciation, and other matters connected with teaching in schools.

LOCAL CENTRE EXAMINATIONS IN MUSIC

(For Centres with Hon. Local Representatives, see pages 676 to 679)

Recognizing the necessity of helping to raise the standard of musical education in Canada, and at the same time to bring the influence of competent examiners to bear upon instruction, McGill University holds local examinations throughout the Dominion. In view of the fact that it grants Degrees in Music and Diploma of Associate and Licentiate in Music, the University extends its field of work by means of these local examinations, which are preparatory to those for Degrees and Diplomas.

The Examiners are appointed by the Board of Governors of the University, the Chairman of the Examining Board being Mr. Douglas Clarke, Dean of the Faculty of Music and Director of the Conservatorium.

GENERAL REGULATIONS

1. All fees must be paid in advance direct to the Secretary of McGill University Conservatorium of Music, 677 Sherbrooke Street West, Montreal, who will supply forms of entry. These can also be obtained from the local hon. representatives or local hon .secretaries. (See pages 676 to 679.)

2. A local representative of McGill University will supervise the conduct of the theoretical examination at each centre. All papers will be sent to McGill University itself.

3. Every certificate gained by candidates in any of the public examinations will bear the imprimatur of McGill University.

4. The Principal of a school may arrange with the Secretary to send an examiner to report on the musical education gained at the school. No individual certificates will be awarded in this case, but merely a collective detailed report drawn up by the examiner and sent to the Principal of the school. (See page 719.)

5. Similar arrangments may be made with regard to Class Singing. (See page 719.)

6. In case of a candidate being prevented by serious illness from attending any examination, the Secretary is authorized, on receipt of a medical certificate, which must, however, reach him at least five days before such examination, to transfer a candidate to the next examination without further fee.

7. Examinations will be arranged by the Secretary when required and new centres formed.

ADVICE TO TEACHERS AND CANDIDATES

1. Candidates are advised not to attempt too high a grade when first entering for the local examinations, which are arranged in a systematic course of progressive grades, beginning with the Preparatory grade and leading on through the Diploma examinations for Associate and Licentiate of Music to that for the Degree of Mus. Bac.

2. Teachers as well as candidates are urged to regard the particular studies and pieces selected for examination in any one grade as indicating the degree of difficulty, and not to confine their attention for a whole year to the preparation of two or three examination pieces.

3. In preparation, teachers and pupils should use music of a lower grade at the beginning of the winter, and should not begin too early with the actual grade book selected for examination at the end of the session. Lack of interest often ensues from the monotony entailed by candidates concentrating their whole attention on the examination book for too long a period.

4. Books for past years, which contain well-assorted standard studies and pieces, are found useful by teachers and pupils alike, whether for repertoire study, reading at sight, or analysis purposes. Price, 50c. per book, obtainable from the General Secretary.

REGULATIONS FOR LOCAL CENTRE EXAMINATIONS FOR CERTIFICATES

1. Theory examinations are held throughout the Dominion about May 1st. No definite date is assigned but the examinations will be held during the first week in May. Due notice will be given to the Local Hon. Secretaries. Candidates wishing to take an examination in a practical subject in the same year as the theoretical examination, if unsuccessful in the latter, can still proceed to the practical examination, and if they satisfy the examiner or examiners in this, they must present themselves at a supplemental theoretical examination held later in the same year, which, if they pass, entitles them to receive the certificate for the practical examination. A special charge for this supplemental examination is found under fees on page 680.

2. Practical examinations are held during May, June and July.

3. For both theoretical and practical local examinations, forms of application, duly filled in by the candidate, and accompanied by the examination fee, *must reach the Secretary in Montreal on or before April 1st, 1941.*

4. Certificates will be awarded to successful candidates in both theoretical and practical subjects.

5. These certificates do not entitle the holders to append any letters to their names.

6. The maximum number of marks in each practical and theoretical subject is 100, of which 60-69 is "Pass", 70-79 "Honours"; 80-89 "Distinction", 90-94 "High Distinction", 95-100 "Highest Distinction".

7. No special text-books are prescribed for theoretical examinations, and no particular method or style is specified for practical examinations. For the convenience of teachers and candidates the University publishes, in separate books for each grade, the studies and pieces required for the Pianoforte Examinations, which can be obtained direct from the General Secretary or from various local music dealers.

8. Candidates presenting a study or piece not prescribed by the current syllabus, run a risk of being disqualified.

9. Candidates entering for practical subjects must, in all grades except the three last (Elementary, Primary and Preparatory), work a theory paper of the preceding lower grade before the practical certificate will be released.

10. Only one candidate at a time is allowed to be in the examination room for practical examinations.

11. The accompanist for all examinations, where one is needed, is allowed to be in the examination room only to accompany the songs and pieces.

12. The examiner's decision is final, and cannot be reconsidered.

13. The possession of certain certificates granted by other institutions may exempt the holder from the necessity of taking the Theoretical part of the Local Examinations. In making application for exemption the holder of such certificates must give explicit information to the General Secretary at least one month before the date of the examination, and be prepared to produce the original certificate, if required.

14. The possession of certain certificates gained in the Local Examinations will entitle the holders to claim exemption from certain parts of the examinations for the Diploma of Licentiate in Music, should they at a later date decide to proceed to the higher examinations for that Diploma.

LOCAL CENTRES

The following places have been adopted as centres for public examinations in Music; others will be added as necessity requires, but in all cases the establishment of a centre depends upon a sufficient number of candidates applying. All examinations for Certificates in the Local Grades, as well as some of those for Degrees and Diplomas, are held at these centres.

Amherst.....Hon. Representative: The Rev. H. C. Olsen.
Hon. Secretary: Mrs. Geo. R. Shiers, 35 Robie St.

Assiniboia.....Hon. Representative: The Superintendent of Schools.

Aylsham.....Hon. Representative: The Rev. L. E. Anderson.
Hon. Secretary: Mrs. R. S. Valleau, Moose Range, Sask.

Brandon.....Hon. Representative: Principal of Brandon College Institute.

Brockville.....Hon. Representative: The Rev. J. G. Sparling.
Hon. Secretary: Mrs. M. MacOdrum, West Pine St.

Calgary.....Hon. Representative: A. Calhoun, Esq., City Librarian, Public Library.

Campbellton.....Hon. Secretary: Miss Laura Alford.

Campbell's Bay.....Hon. Representative: Rev. W, MacNally,
Hon. Secretary: Sister Philippe, St. Joseph's Convent.

Charlottetown.....Hon. Representative: H. H. Shaw, Esq., B.Sc.
Hon. Secretary: Miss E. Lillian McKenzie, Mus.B. (McGill), 77 Upper Prince Street.

Cookshire.....Hon. Representative: The Rev. A. E. Tulk.
Hon. Secretary: Miss E. J. Ball.

Cranbrook.....Hon. Representative: Principal of the High School.
Hon. Secretary: Mrs. D. Finlayson.

Edmonton.....Hon. Representative: Hon. A. C. Rutherford, 912-916 McLeod Building.
Hon. Secretary: Mrs. O. J. Walker, L.Mus. (McGill), 11103 Saskatchewan Drive.

Fernie.....Hon. Representative: Angus McPhee, Esq.
Hon. Secretary: Miss S. E. West.

Fort Qu'Appelle.....Hon. Representative: W. H. Thompson, Esq.

Fredericton.....Hon. Representative: The Right Reverend Bishop W. H. Moorhead, D.D., Bishop's Court.
Hon. Secretary: W. J. Smith, Esq., A.R.C.O., 679 Union St.

Glace Bay.....Hon. Representative: The Rev. J. MacDonald.
Hon. Secretary: Miss Agnes McNee.

Gladstone.....Hon. Representative: Dr. E. H. Whelpley.
Hon. Secretary: David B. McHardy, Esq., 200 Manderville St., Winnipeg.

Granby.....Hon. Representative: Dr. G. A. Runnells, 35 Dufferin Street.
Hon. Secretary:

Halifax.....Hon. Representative: The Rev. S. H. Prince, University of King's College.
Hon. Secretary: Miss Ada Hoyt, 3 College St.

Indian Head.....Hon. Representative: Dr. F. W. Hart.

Kamloops.....Hon. Representative: Mrs. P. H. McCurrach, B.A.

Kentville.....Hon. Representative: The Rev. A. A. McLeod.
Hon. Secretary: Mrs. J. Stanton Rockwell.

Kerrobert.....Hon. Representative: R. L. Hanbidge, Esq., K.C.
Hon. Secretary: Miss Gladys Nault.

Kimberley.....Hon. Representative: A. E. Oughtred, Esq., B.A.
Hon. Secretary: Mrs. T. A. Martin.

Lethbridge.....Hon. Representative: A. J. Watson, Esq., Supt. of Schools, Central School.
Hon. Secretary: Miss Jennie King, Coaldale, Alta.

Liverpool.....Hon. Representative: The Rev. E. B. Spurr.
Hon. Secretary: Miss Evelyn Rieser, L.Mus. (McGill).

Maxville.....Hon. Secretary: Miss Netta McEwen, Box 294.

Melfort.....Hon. Representative: J. N. Gale, Esq., P.O. Box 280.
Hon. Secretary: Mrs. J. J. Bushe.

Moncton.....Hon. Representative: The Rev. J. A. Ramsay, D.D., The Manse, Alma St.
Hon. Secretary: Miss Marion Murray, 185 Mountain Road.

Moose Jaw.....Hon. Representative: A. H. Gibbard, Esq., B.A., City Librarian, Public Library.
Hon. Secretary: Academy of Sion.

Nelson.....Hon. Representative: H. E. Dill, Esq., 418 Mill St.

New Glasgow.....Hon. Representative: Mrs. H. R. Murphy, 251 Brookside Avenue.
Hon. Secretary: R. G. Humphreys, Esq., Evening News Bldg.

Ottawa.....Hon. Representative: Dr. Duncan Campbell Scott, Government Offices, Booth Bldg.
Hon. Secretary: Miss L. Barrigar, L. Mus. (McGill), 173 Cooper St.

Peterboro.....Hon. Representative: John T. Donaldson, Esq., 223 Crescent St.
Hon. Secretary: F. G. Mann, Esq., 199 London St.

Pictou Academy.....Hon. Representative: Dr. J. Bingay.
Hon. Secretary: Miss Eva Skinner.

Plattsburgh.....
Saranac Lake.....
Ogdenburg.....
Chazy.....
Hon. Representative: J. A. McHattie, Esq.

Malone.....Hon. Secretary: Miss Isabelle Douville, 117 East Main Street.

Quebec.....Hon. Representative: Dr. G. W. Parmelee, Parliament Bldgs.
Hon. Secretary: Miss Edith Latter, 49-Ninth St., Limoilou, P.Q.

Regina.....Hon. Representative: The Rev. A. D. Mackenzie, 2124 Rae St.
Hon. Secretary: Mrs. J. Radcliffe Suart, L.Mus. (McGill), 1416 Rae St.

Revelstoke.....Hon. Representative: A. E. Miller, Esq., Box 129.
Hon. Secretary: Miss Shella Dickey. Box 132.

Rothesay.....Hon. Secretary: Miss A. Davidson, L.Mus. (McGill).

St. John.....Hon. Representative: The Rev. C. Gordon Lawrence, M.A., 50 Orange St.
Hon. Secretary: Miss Eileen Gillis, L.Mus. (McGill), Red Head P.O.

Saskatoon.....Hon. Representative: W. A. Gilchrist, Esq., Canada Bldg.
Hon. Secretary: Geo. C. Palmer, Esq., L.R.A.M., 652 University Drive.

Sherbrooke.....Hon. Representative: W. O. Rothney, Esq., M.A., Ph.D., Bishop's University, Lennoxville.
Hon. Secretary: Wright W. Gibson, Esq., M.A., High School.

Stellarton.....Hon. Secretary: L. N. Miller, Esq., L.Mus. (McGill), Box 44.

Sudbury.....Hon. Secretary: Miss M. R. Perreault, 52 Riverside Drive.

Sutton.....Hon. Representative: The Ven. Archdeacon H. Charters, B.A., L.Th.
Hon. Secretary: Miss Gertrude Gingras.

Sydney Mines.....Hon. Representative: The Rev. L. H. Crandall.
Hon. Secretary: H. A. Briers, Esq., Box 438.

Sydney.....Hon. Representative: G. G. Campbell, Esq., B.A., Sydney Academy.
Hon. Secretary: A. J. McKnight, Esq., 63 Rockdale Ave.

Timmins.....Hon. Representative: The Rev. W. Linder.
Hon. Secretary: E. Nathanson, Esq., L.Mus. (McGill), 32½ First Avenue.

Truro.....Hon. Representative: C. G. Mosher, Esq.
Hon. Secretary: Miss M. M. Carter, 135 Dominion Street.

Vancouver.....Hon. Secretary: Miss M. Boulton, B.A., 5687 West Blvd.

Victoria.....Hon. Secretary: Dr. J. E. Watson, 635 Fort St.

Wetaskiwin.....Hon. Secretary: Gerard D. Van Stockum, P.O. Box 8.

Winnipeg.....Hon. Representative: John Parton, Esq., 356 Main St.

Wolseley.....Hon. Representative:———
Hon. Secretary: Mrs. Anna P. Thomson.

Yarmouth.....Hon. Secretary: Mrs. D. Raymond, Brunswick St., Box 520.

Yorkton.....Hon. Representative: E. A. Crosthwaite, Esq., Principal, Simpson School, Yorkton, Sask.
Hon. Secretary: Mrs. R. H. Johnston, L.Mus. (McGill), 164-2nd Ave. N.

FEES FOR LOCAL EXAMINATIONS

1.—Theory of Music (when taken as a Special Subject)

Highest Grade	$9.00
Senior Grade	5.50
Intermediate Grade	4.00
Junior Grade	3.00
Elementary Grade	2.00

2.—Practical Subjects

Highest Grade, *including fee for Senior Theory*	$12.00
Senior Grade, *including fee for Intermediate Theory*	10.00
Intermediate Grade, *including fee for Junior Theory*	7.50
Junior Grade, *including fee for Elementary Theory*	6.00
Elementary Grade	3.50
Primary Grade	2.50
Preparatory Grade	1.00
Duet Playing examination covering both entrants	1.50

3.—Supplementary Theoretical Examination

Fee for three highest grades (each paper)	$2.00
Fee for the two lowest grades	1.50

4.—General School Examination

Fee, $20.00 for first hour and $10.00 for each succeeding hour. (One examiner.)

5.—Class Singing Examination

Fee, $10.00 per class. (One examiner)

LOCAL CENTRE EXAMINATIONS IN THEORETICAL MUSIC

These examinations are divided into five grades, and Certificate in each grade will be awarded to successful candidates.

HIGHEST GRADE.—Harmony in three and four parts, up to chords of th major and minor dominant ninth and secondary sevenths, includin the use of suspensions and passing notes (harmonizing of melodie and figured and unfigured bass, the completing of a harmonic sentenc from a given pattern); the writing of a short passage introducin specified chords. The candidate will be required to take down fro dictation a short and simple melody which will be played three time

Counterpoint in two parts; Analysis, together with elementary knowledge of form, questions being based upon the candidate's previous study of the pieces given in this year's Highest Grade, List A, Pianoforte Book (a copy of which will be provided for the candidates in the examination room), and the outlines of musical history. The examinations in this grade consist only of two papers. One paper deals with Harmony and Counterpoint, and the other with History of Music, and Analysis and Form.

SENIOR GRADE.—More advanced questions on the work specified for the Intermediate Grade. A knowledge of musical ornaments or graces and of syncopated time, analysis of given chords or passages and the harmonization of an easy melody and of an unfigured bass. Candidates will also be required to write an original tune of from four to eight bars and indicate the harmony by figuring and directs; to add a contrasted tune to one given, and to *add* pharse marks. *Care should be taken, in writing the tune, to avoid the interval of an augmented 4th and to obtain a judicious mixture of conjunct and disjunct movement. In harmony questions generally candidates should consider the possibility of introducing the supertonic chord.*

N.B.—Special attention is paid by the examiners to the working of the harmony questions. A definite percentage of marks is required in these questions in order to pass.

INTERMEDIATE GRADE.—A knowledge of the C clefs, the transposition of a given passage, the barring (and pre-fixing of time and key signatures) of given passages and (in both original and inverted positions) triads, common chords, chords of the dominant seventh with resolution on the tonic chord and chords of the augmented 6th. In addition to the above, the harmonization by means of simple chords in three or four parts of short phrases with either melody or figured or unfigured bass or both is given. Candidates are required to write a tune of their own of from four to eight bars and add another to it, so as to produce a piece of flowing 2-part writing. They are also required to analyse the chords in a given passage, and point out errors of part-writing or poor chord construction in a given passage.

N.B.—Special attention is paid by the examiners to the working of the harmony questions. A definite percentage of marks is required in these questions in order to pass. (See special note regarding melody and harmony questions under Senior Grade.)

JUNIOR GRADE.—Transposition from treble to bass and vice versa, the more extreme key signatures and scales, marks of expression, including the translation of Foreign terms into English and vice versa, a knowledge of triads, technical names of notes for scale degrees, intervals and their inversion, grouping of incorrectly grouped notes according to the time signature used.

ELEMENTARY GRADE.—The following are the requirements:—A knowledge of staves, G and F clefs, notes, dots, rests, leger lines, time-signatures, key signatures (major and minor), writing scales, the more common marks of expression, easy intervals, and the writing of two simple tunes, each of two bars, on a given pattern; the tunes should have some character. Completing bars with notes or rests.

N.B.—Specimens of examination papers used for all Grades during the last five years can be obtained from the Secretary of McGill University Conservatorium at 10 cents per copy of each grade.

Special Note:—Leaflets have been specially prepared as a guide on certain points for the use of teachers preparing candidates for the theoretical examinations. These will gladly be sent to anybody interested.

LOCAL CENTRE EXAMINATIONS FOR CANDIDATES IN PRACTICAL SUBJECTS

PIANOFORTE

In addition to the usual grades, two new features are now introduced.

(1) A Preparatory Grade.

(2) A Duet playing examination.

Certificates will be awarded, with Pass or Distinction marks, as in other grades.

See requirements and table of marks at the end of this section on Pianoforte regulations.

Official books, containing the pieces required for the Pianoforte Examinations in all the six grades of the local examinations, can be obtained, price 85c., either from the Secretary, McGill University Conservatorium of Music, Montreal, or from any music dealer in the Dominion.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there in uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

HIGHEST GRADE

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

Major, minor (both forms) and chromatic, in all keys, in similar and contrary motion, at the octave, third, sixth or tenth, with Staccato or legato touch, and beginning from either the highest or lowest note, as may be required; major and minor scales also in similar motion in double octaves in all keys.

2. *Arpeggios.*

Common chords, dominant 7ths and diminished 7ths, in all positions at the interval of an octave only, starting on the highest or lowest note with staccato and legato touch.

NOTE:—Scales and arpeggios should be played at as fast a speed as is consistent with clarity and accuracy and without group accentuation.

3. *Ear Tests.*

Candidates must be able to name, either by interval or by note (as they may prefer), any diatonic or chromatic interval above or below any given note which may be struck by the examiner; to say whether a common chord is major or minor, and to recognize the chord of the dominant 7th in its root position when it is struck.

A rhythmical test is also given (which the candidate is required to tap or sing) as well as a melodic test which the candidate must hum, sing, or play on the piano after the examiner.

4. *Reading at Sight.*

Candidates must be prepared to read a test which will be of about the same difficulty as the pieces set for prepared work in the Intermediate Grade.

5. *Prepared Work.*

The whole of either List A or List B published in separate books, and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music, in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

Questions will be asked on the form, modulations, and marks of expression, etc., found in the pieces. In connection with the questions on form candidates are recommended to read Macpherson's "Form in Music" (published by Joseph Williams).

Senior Grade

Before a certificate can be issued to a successful candidate for this examination the Intermediate Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*
   All scales in similar motion through four octaves and contrary motion through two octaves, including chromatic scales, played legato at the rate of about 4 notes to M.M. 120, and played staccato at about M.M. 90, beginning with the highest or lowest note as required and at the octave only. Also all scales in 3rds in similar motion only. All scales must be played forte or piano as required.

2. *Arpeggios.*
   All major and minor common chords through four octaves, also dominant and diminished 7ths, time to be about 4 notes to M.M. 100 played legato and M.M. 72 played staccato. These arpeggios also to be played in the inversions if required, at about 4 notes to M.M. 72. All arpeggios must begin from the highest or lowest note as required, and be played forte and piano.

3. *Ear Tests.*
   Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. Candidates will be required to sing or hum *any one* of three notes played together, and also a short phrase played by the examiner.

4. *Reading at Sight.*
   The music will not be more difficult than the pieces set for the Junior Grade.

5. *Prepared Work.*
   The whole of either List A or List B published in separate books, and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*
   Questions will be asked as to the key, time and meaning of signs used in the pieces prepared by the candidate. In addition an intelligent musical understanding of the pieces is expected such as simple elements of construction.

Intermediate Grade

Before a certificate can be issued to a successful candidate for this examination, the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

   Major and minor (both forms) in all keys, also chromatic scales through four octaves, each hand separately and both together in similar motion, beginning either on the lowest or highest note legato and staccato, speed to be about 4 notes to M.M. 92 legato and M.M. 72 staccato, piano and forte.

2. *Arpeggios.*

   All major and minor common chords, with inversions, through four octaves, separately and together, beginning from either the highest or lowest note.

3. *Ear Tests.*

   To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. Candidates will be required to hum or sing a short phrase played by the examiner.

4. *Reading at Sight.*

   A test consisting of music of about the same difficulty as the pieces set for the Elementary Grade.

5. *Prepared Work.*

   The whole of either List A or List B, published together in one book, and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there in uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

   Questions will be asked as to the time, key and meaning of signs used in the pieces prepared by the candidate.

Junior Grade

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Scales.*

   Major and minor (both forms, harmonic and melodic, but the latter only hands separately) and chromatic scales in similar motion only, in all keys through two octaves, beginning from either highest or lowest note and played forte or piano with separate hands and both hands as required, at a speed of about 4 notes to each M.M. 80.

2. *Arpeggios.*

   Extended arpeggios of common chords in all major and minor keys in root position through two octaves, each hand separately and together.

3. *Ear Tests.*

   To name by interval or note (as candidates prefer) with middle C, G, or F as given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

4. *Reading at Sight.*

   A test is set of which the difficulty will be similar to that of the pieces in the Primary Grade.

5. *Prepared Work.*

   The whole of either List A or List B, published together in one book and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

   Questions will be asked as to the various marks of expression and as to the key and time of the various prepared pieces.

Elementary Grade

Candidates are not required to take any written theoretical examination before presenting themselves for this examination.

1. *Scales.*

The major scales of C, G, D, A, F, B flat and E flat, and their relative minors (harmonic form only), with separate hands and both hands through two octaves, beginning with highest or lowest note, also piano or forte, as required, at a speed of about two notes to each M.M. 88.

2. *Arpeggios.*

Major and minor, the same keys as the above scales, each hand separately, through two octaves, in root form only.

3. *Ear Tests.*

With any note chosen by the examiner about the middle of the keyboard as the lowest note, to distinguish between the major or minor 3rd, perfect 5th and perfect octave from that note.

4. *Reading at Sight.*

Two easy tests will be given, one for the right hand alone and one for the left hand alone.

5. *Prepared Work.*

The whole of either List A or List B, published together in one book, and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

Two or three easy questions will be asked on the marks of expression, key and time of the pieces prepared, also as to the values of the notes and rests and the signatures.

Primary Grade

Candidates are not required to take any written theoretical examination before presenting themselves for this examination.

1. *Scales.*

Major scales, C, G, D, F and B flat, and their respective relative minors, in harmonic form only, with one hand at a time through two octaves, beginning with the lowest note at a speed of (a) one note to each M.M. 100, (b) two notes to each M.M. 100.

2. *Arpeggios.*

Major form only, 2 octaves, starting from the lowest note, hands separately, in Root form only in Keys of C, G, D, F and B flat.

3. *Prepared Work.*

The whole of either List A or List B, published together in one book, and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there in uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

4. *Questions.*

A few questions will be asked on the notes and rests found in the prepared pieces.

Marks

The following system is adopted:—

	Primary	Elementary and Junior	Intermediate Senior and Highest
Scales	13	13	15
Arpeggios	13	13	15
Accuracy as regards Notes and Rests and correct system of Fingering	14	14	..
Tempo (including in the higher grades, if piece demands it, Tempo Rubato)	10	10	..
Expression (including in the higher grades use of pedals)	10	10	10
Touch, Rhythm, Phrasing and Accent	12	12	20
Reading at Sight	..	12	15
Ear Tests	..	10	15
Questions	6	6	10
Proper position of hands and arms	12	..	..
Movement of fingers	10	..	..
	100	100	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Highest Distinction 95-100.

Preparatory Grade

This is now the earliest examination which it is possible to take in the Local Centre Examinations. There is no theoretical examination.

The candidates will be required to play:—

(1) Short exercises, for separate hands, to illustrate legato playing and phrasing.

(2) Two or three short pieces for both hands, working independently (separately).

(3) Ear Tests.

This examination is designed to meet the needs of beginners studying privately as well as those taking the first year course in Pianoforte Class Instruction in schools.

All the music, with specimen ear tests, will be procurable in one volume, Leaflets showing alternative requirements based on the Oxford Piano Course and the Kammerer (1st and 2nd years) may be obtained from the Secretary.

Marks

Exercises	30
Pieces	40
Ear Tests	30
	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Highest Distinction 95-100.

Examination in Pianoforte Duet Playing

In order to encourage the mutual making of music and to stimulate the interest of young performers, it has been decided to institute an examination in pianoforte duet playing in the Elementary Grade. The requirements are:—

(1) The playing of two or three simple duets of Elementary Grade difficulty.

(2) The major scales of G, F and D played as duets through two octaves. The players will play together one hand at a time (starting two octaves apart) and two hands together (starting one octave apart).

(3) Ear Tests. Simple rhythmical tests will be given. For instance, a tune of one bar will be played and the candidates will tap (together) the rhythm. The examiner will then play a short and easy passage having one chord to a beat and the candidates will be required to clap the beats during the playing. (The test will be played over first.) Candidates will also be required to hum or sing a passage of about 6 notes, equal in length, which will be played over three times on the pianoforte.

(4) Questions on the notes and rests will be asked, also on the times and keys of the prepared pieces.

(5) Sight-reading. Candidates will be required to read a very simple duet, one hand only to each part.

Fee (covering both entrants) $1.50. Only one application (with names, etc., of both candidates) need be sent in.

MARKS FOR DUET PLAYING EXAMINATION

Scales	20
Accuracy as regards Notes and Rests and correct system of fingering; sight-reading	30
Touch, Rhythm, Phrasing, Accent and Expression	20
Ear Tests	20
Questions	10
	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Highest Distinction 95-100.

VIOLIN

HIGHEST GRADE

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).
   All major and both forms of all minor scales (three octaves). The chromatic scales of C (two octaves) beginning on the G string and E beginning on the D string. Slurred and detached bowing.

2. *Arpeggios.*
   In all major and minor keys through three octaves, one note to a bow, and slurred (one bow ascending and one descending).

3. *Ear Tests.*
   Candidates must be able to name, either by interval or by note (as they may prefer), any diatonic or chromatic intervals which may be struck by the examiner above or below the given note; to be able to say whether the common chord is major or minor, and to recognize a chord of the dominant 7th in its root-position when it is struck (on the pianoforte). A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the violin after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test which will be of about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.*

(a) Three Studies:—Candidates may choose any one of Kreutzer's Etudes between Nos. 23 and 42 inclusive, and also any one of Rode's Caprices and also any one of Fiorillo's Etudes.

(b) Concerto No. 19 ..... KREUTZER
or Concerto in E minor ..... NARDINI
or La Folia ..... CORBELLI-LÉONARD
or Sonata in E minor ..... VERACINI

(c) Sixth Partita in E major, for violin alone ..... BACH
(First movement only)

6. *Questions.*

Questions will be asked on the form, modulation, and marks of expression in the prepared work.

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).

B flat major and G major and
B flat minor and G minor (both forms) through three octaves. Slurred and detached bowing.

2. *Arpeggios.*

Three octaves in the keys of B flat major and B flat minor and G major and minor.

(a) One note to each bow.

(b) Three notes slurred to each bow.

(c) Six notes slurred to each bow.

3. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave, above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate will be required to tap; or sing) as well as a melodic test which the candidate must hum, sing, or play on the violin after examiner.

4. *Reading at Sight.*
The music given will not be of greater difficulty than the pieces set for the Junior Grade.

5. *Prepared Work.*
Studies.
No. 18, Thirty Special Studies, Op. 36 ..... MAZAS
No. 10 ..... KREUTZER
No. 15 ..... FIORILLO

Pieces.
Concerto No. 23, First or Last Movement ..... VIOTTI
or Sonata in G minor ..... TARTINI
or any one of Six Sonatas ..... HANDEL

6. *Questions.*
Questions will be asked as to the key, time, and meanings of signs used in the prepared work.

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must be passed. (*See page 681*).

1. *Scales* (from memory). See footnote on page 693.
G major and G minor and A major and A minor through 3 octaves. Minor scales to be played in both forms. Detached and 3 notes to a bow.

2. *Arpeggios.*
Three octaves in the following keys:—G major and minor, A major and minor.
(a) One note to each bow.
(b) Three notes slurred to each bow.
Interchange of position must be clearly shown in playing any of these arpeggios.

3. *Reading at Sight.*
A test consisting of music of about the same difficulty as pieces set for the Elementary Grade.

4. *Ear Tests.*
To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the violin after the examiner.

5. *Prepared Work.*

Studies.

No. 7 of Thirty Special Studies, Op. 36 ..... MAZAS
Nos. 21 and 29, Op. 20 ..... KAYSER

Pieces.

Second Concertino, Op. 14 (published by Schott) .... R. ORTMANS
or Concertino, Op. 31, 1st or Last Movement ..... SITT
or Concerto No. 3, Op. 12, 1st Movement ..... SEITZ
or Concerto No. 4, 1st Movement ..... SEITZ
or Concerto in A minor ..... VIVALDI

6. *Questions.*

Questions will be asked as to the time and the meaning of signs used in the pieces prepared.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page* 682).

1. *Scales* (from memory). See footnote.

Two octaves of the following:—

C major and minor, 2nd position. B flat major and minor in 2nd position. D major and minor in 3rd position and in 4th position. Minor scales to be played in both forms.

(a) One note to each bow.
(b) Two notes slurred to each bow.

2. *Arpeggios.*

Two octaves in the following keys: G major and G minor, D major and D minor.

(a) One note to each bow.
(b) Three notes slurred to each bow.

Interchange of position must be clearly shown in playing any of these arpeggios.

3. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G, or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the violin after the examiner.

*N.B.—Ritter's Violin Scale Book may be used in preparation for this grade as well as those below it.

4. *Reading at Sight.*

An easy test is given about the difficulty of the pieces in the Lowest Grade.

5. *Prepared Work.*

Studies.

Nos. 9, 12, Op. 20 ..... KAYSER
No. 42, Op. 32, Book 3 ..... SITT

Pieces.

First or last movement, Sonatina No. 3 ..... R. HOFMAN
(Carl Fischer)

or Allegro entusiastico ..... PUGNANI-MOFFAT
(Carl Fischer)

or Fragment of a Sonata ..... DANCLA
(Carl Fischer)

or Melody ..... LULLY-SPALDING
(Carl Fischer)

6. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and the time of the prepared pieces.

ELEMENTARY GRADE

No written examination in theory need be passed by candidates before entering for this examination.

1. *Scales* (from memory). See footnote on page 693.

G, A and B (major and minor) in two octaves, 4 notes to each bow.

2. *Arpeggios.*

G major and G minor, in first position only, through two octaves.
(1) One note to the bow.
(2) Three notes to the bow.
(Minor Scales in melodic form only.)

3. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

4. *Reading at Sight.*

A very easy piece is given.

5. *Prepared Work.*

Studies.

No. 1, Op. 20 (played with four different bowings).....KAYSER
No. 7, Op. 20.....KAYSER
Concertino in first position, Op. 93.....HANS SITT
First or last movement.
or Concertino, No. 5—Op. 22.....SEITZ
or Concertino in B minor, Op. 35 (in first position)....RIEDING
or any two of "Four Easy Pieces".....DUNCAN-RUBBRA
(Oxford Univ. Press)

6. *Questions.*

Questions will be asked on notes, rests, marks of expression, time of pieces and studies, and on key signatures.

PRIMARY GRADE

No written examination in theory need be passed by candidates before entering for this examination.

1. *Scales* (from memory). See footnote on page 693.

Scales in G major and minor, and A major and minor in two octaves, also D major and minor and F major in one octave, one note to each bow.

(Minor Scales in melodic form only.)

2. *Prepared Work.*

Studies.

Violin Method, Op. 6, Part 2, No. 13.....SEVČIK
or Exercise No. 2, Op. 74, with different bowings.....WOHLFARTH
Pieces.
Theme with Variations, Op. 57.....PAPINI
or Prière, Op. 22, No. 4 (Bosworth Ed.).....RIEDING
or Mazurka.....HERBERT KINGSLEY
or Marche Militaire.....ADAM CARSE
(Published by Joseph Williams)
or Valsette, Op. 33, No. 2.....JOSEPH BLOCH
or A Bed-time Song.....GORDON JACOB

3. *Questions.*

Questions will be asked on the notes and rests found in the prepared pieces.

4. *Ear Tests.*

With any note chosen by the examiner about the middle of the key-board as the lower note, to distinguish between the major or minor 3rd, perfect 5th, and perfect octave from that note.

Marks

In all the Grades with the exception of the Primary, the following system of marking is adopted for Violin, Violin and Violoncello:—

Posture	5
Scales and Arpeggios	12
Technical Studies and Exercises	10
Bowing	8
Accuracy of Notes and Rests	8
Tone Production	10
Intonation, including Tuning	8
Rhythm, Phrasing, Accent and Gradation of Tone	10
Tempo (including in higher grades, if piece demands it, Tempo Rubato)	5
Questions	6
Ear Tests	10
Sight Reading	8
Total	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Highest Distinction 95-100.

In the Primary Grade, Sight Reading is not required; the marks allotted to this are distributed as follows:—

Accuracy of Notes and Rests	10 instead of 8
Rhythm, Phrasing, Accent and Gradation of Tone	14 instead of 10
Strictness of Time and Choice of Tempo	7 instead of 5

In every other respect the marking is as in above schedule.

VIOLONCELLO

Highest Grade

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

   Major and minor scales in all keys through three octaves (minor scales in melodic form only).

2. *Technical Studies.*

   Nos. 2 and 21 Exercises for Violoncello ..... J. L. Duport

   (a) Four notes slurred to each bow.

   (b) Spiccato, one note to each bow.

3. *Ear Tests.*

Candidates must be able to name either by interval or by note (as they may prefer), any diatonic or chromatic interval which may be struck by the examiner above or below the given note; to say whether the common chord is major or minor, and to recognize a chord of the dominant 7th in its root position, when it is struck (on the pianoforte). A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the 'cello after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test, which will be of about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.*

Nos. 32, 33, 35 and 36 from Progressive Studies for the Violoncello.....WHITEHOUSE

or

Study No. 7 (Litolff Ed.).....J. L. DUPORT

and

Study Nos. 1, 4 and 6 (Berners Ed. No. 102a).....A. H. EARNSHAW

Pieces.

Andante from Sonata in A minor.....BOELLMANN

Allegro appassionato.....C. SAINT-SAENS

or

Sonata in G major (Ed Simrock).....J. B. BREVAL

6. *Questions.*

Questions will be asked on the form, modulation, and marks of expression in the prepared work.

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).

All major and minor scales compass two octaves (minor scales in melodic form only).

(a) Detached.

(b) Slurred, 2, 4 or 8 notes to a bow.

2. *Technical Studies.*

Studies Nos. 5 and 7 (Berners Ed. No. 102a).....A. E. EARNSHAW

or

Any Two Studies.....WILLEM WILLERKE

3. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals, within the limits of an octave, above or below, any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the 'cello after the examiner.

4. *Reading at Sight.*

The music given will be about the same difficulty as the pieces set for Junior Grade.

5. *Prepared Work.*

Nos. 28, 29, 30 and 31 from Progressive Studies for the Violoncello.....WHITEHOUSE

Any two of "Six Airs arranged for 'cello".....J. BARBIROLLI
(Oxford University Press)

Berceuse, Op. 14 (published by Fromont).....DUNKLER

Berceuse (published by Hawkes & Son, London).....G. ALCOCK

Elegie.....G. FAURÉ

6. *Questions.*

Questions will be asked on the form, modulation and marks of expression in the pieces prepared.

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).

In all the major and minor keys through two octaves.

(a) Detached.

(b) Slurred, two notes to a bow.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with either middl C, G or F as the given note, any note, diatonic or chromatic, struc by the examiner above or below it, within the limits of an octave The choice of the key-note is left to the examiner. A rhythmica test is also given (which the candidate is required to tap or sing) as well as a melodic test which the candidates must hum, sing, o play on the 'cello after the examiner.

3. *Reading at Sight.*

A test consisting of music about the same difficulty as the pieces set for the Elementary Grade.

4. *Prepared Work.*

Studies.

Any two advanced studies.....DOTZAUER
Nos. 1 and 2 (Litolff Edition, No. 1520).....MERK
No. 9—Exercises (Litolff).....DUPORT
or Nos. 19, 20, 22, 24, 25 and 27 from Progressive Studies for the Violoncello.....WHITEHOUSE

Pieces.

Melodie, Op. 14 (Augener Edition No. 7709).....W. H. SQUIRE
Aubade Humoresque, Op. 39, No. 2.....ROBERT C. MARTIN
(Published by Leduc, Paris)
L'Abeille.....SCHUBERT
or any two of 12 Easy Pieces, Op. 4.....ARNOLD TROWELL
(Schott)

5. *Questions.*

Questions will be asked as to the time, key, and meaning of signs used in the pieces prepared by the candidate.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Scales* (from memory).

The major scales of E, A, D, A flat, E flat and B flat, and the minor scales of C sharp, F sharp, B, F, C, and G, through two octaves.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G or F as the given note, any note of the diatonic major scale; struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the 'cello after the examiner.

3. *Reading at Sight.*

An easy test will be given.

4. *Prepared Work.*

Studies.
Nos. 39 and 51. Studies for the Young Cellist.....L. FEUILLARD
Nos. 33 and 34 from 113 Studies.....DOTZAUER
or Nos. 1, 3, 6 and 9 from Progressive Studies for the Violoncello.....WHITEHOUSE
Gavotte—Op. 5.....W. H. SQUIRE
(Augener Edition No. 7704b)
Meditation.....G. PAPIN
(Ed. Leduc)

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and time of the pieces prepared.

ELEMENTARY GRADE

No written examination in theory need have been passed by candidates before entering for this examination.

1. *Scales* (from memory).

Major scales of C, G, and D; minor scales of A, E, and B; through two octaves.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

3. *Reading at Sight.*

A very easy piece will be given.

4. *Prepared Work.*

Studies.
Nos. 11 and 43. Studies for the Young Cellist.....L. FEUILLARD
Nos. 1 and 2 from 113 Studies.....DOTZAUER
or Nos. 11, 12, 16, and 18 from Progressive Studies for the Violoncello.....WHITEHOUSE

Pieces.
Intermezzo—Op. 5.....W. H. SQUIRE
(Augener Edition No. 7704a.)
Reverie.....DUNKLER

5. *Questions.*

Easy questions will be asked as to the notes, rests, marks of expression and time of pieces and studies; also questions on key signatures.

VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS

In each of these three are only four Grades. The requirements for each Grade can be obtained on application to the Secretary of the Examining Board.

ORGAN

Highest Grade

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. *(See page 681).*

1. *Scales.*

All major and minor (both forms), also chromatic scales played at varying degrees of speed.

(a) Pedals only, for one and two octaves.

(b) Manuals only, hands together at 8ve, 3rd, and 6th for three octaves.

(c) One hand and pedals combined, in similar and contrary motion, from the octave or unison for one and two octaves.

2. *Technical Studies in Pedal Playing.*

Part II, Section II, Nos. 20-59 inclusive.....Nilson
Part II, Section III, Nos. 8-28 inclusive.....Nilson
(Published by Schirmer)

3. *Ear Tests.*

Candidates must be able to name, either by interval or by note (as they may prefer), any diatonic or chromatic interval which may be struck by the examiner above or below the given note, to say whether the common chord is major or minor and to recognize a chord of the dominant 7th in its root position when it is struck. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test which will be of about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.* One of the following groups:—

Chorale on Ein Feste Burg.....BACH
(Novello Book 18)
Postlude and Trio, Nos. 2 and 3 of 6 Preludes and Postludes, 1st set Op. 101.....STANFORD
(Stainer & Bell)
Alleluia.—Final.....BOSSI
(Durand)
or
Trumpet Voluntary in D.....PURCELL
(Ashdown—Modern Recital Pieces for Organ, Vol. 2)
Prelude (only) from Prelude and Fugue in F minor.....BACH
(Novello Book VI or Peters)
Choral Improvisation, "By the Waters of Babylon", Op. 65 No. 12.....KARG-ELERT
or
Nun Komm Der Heiden Heiland.....BACH
(A due bass)
(Book 17 Novello edition, page 49.)
On hearing the first cuckoo in Spring (arr.: Eric Fenby).....DELIUS
(Oxford University Press)
Toccata in D minor from Fantasia & Toccata.....STANFORD
(Stainer & Bell)

6. *Questions.*

Questions will be asked on the form and modulations, and marks of expression, in the pieces prepared; also on chapters 3, 4, 5 and 6 of A. E. Hull's book on Organ Playing (published by Augener).

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. (*See Page 681*).

1. *Scales.*

All major and minor (both forms), and chromatic scales.

(a) Pedals only. C D flat, D E flat, E & F for two octaves.

(b) Manuals only, hands together for three octaves in similar and contrary motion. (Harmonic minor only in contrary motion.)

2. *Technical Exercises.*

Technical Studies in Pedal Playing.....NILSON
Part II, Section II, Nos. 1-9 inclusive.
Part II, Section III, Nos. 1-7 inclusive.
(Published by Schirmer.)

3. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

The music given will not be of greater difficulty than the pieces set for the Junior Grade.

5. *Prepared Work.* One of the following groups:—

Presto from Concerto No. 5 in F.....HANDEL
(Borreman ed. Paris)
2nd Movement 5th Sonata.....MENDELSSOHN
(Any edition)
In Paradisium.....DANIEL-LESUR
(Alphonse Leduc)
or
Evening Hymn on a Ground.....PURCELL
(Cramer)
Prelude and Fugue in C major.....BACH
(Novello, Bk. III, or Peters)
Peaen (No. 5 of 5 short pieces)—(O.U.P.).....WHITLOCK

6. *Questions.*

Questions will be asked as to the keys through which the music passes and on marks of expression, etc., found in the pieces; also on chapters 4, 5 and 6 of A. E. Hull's book on Organ Playing. (Pub. by Augener).

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

(a) All major, minor and chromatic scales through three octaves (hands together) on manuals, in similar and contrary motion and starting on either highest or lowest note.

(b) Pedals: All major and minor and chromatic scales through one octave.

2. *Technical Studies in Pedal Playing* (Pub. Schirmer).....NILSON
Part II, Section I.

3. *Ear Tests.*

To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any other note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

A test consisting of music of about the same difficulty as the pianoforte pieces set for the Elementary Grade.

5. *Prepared Work.* One of the following groups:—

Prelude and Fugue in E minor.....BACH
(Novello, Bk. II, or Peters)
The Holly and the Ivy.....P. C. BUCK
(Year Book Press)
or
Prelude and Fugue in G major.....MENDELSSOHN
(Any edition)
A Folk Tune.....WHITLOCK
(O.U.P., Five Short Pieces)
or
March from Dramma Musica (transcribed by H. Grace Oxford Univ. Press).....BACH
Prelude "Rhosymedre".....VAUGHAN-WILLIAMS

6. *Questions.*

Questions will be asked as to the time and meaning of signs used in the pieces prepared, also on chapters 4 and 5 of A. E. Hull's book on Organ Playing (Published by Augener).

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Scales.*

C, G, D, E, E flat and F in both major and harmonic minor.

(a) Manuals only (hands separately and together) through two octaves in similar motion.

(b) Pedals only. Upper or lower octave, as required by the Examiner.

2. *Technical Studies.*

"The Organ" (Published by Novello).....W. ALCOCK
Pedal Exercises, pages 29 and 32, also pages 49 and 50.
Manual Exercises, pages 40 to 43 inclusive.
Manuals and Pedals, pages 67 to 70 (Nos. 150 to 153 inclusive).

3. *Ear Tests.*

To name by interval or note (as candidates prefer), with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

An easy test will be given about the difficulty of the pieces in the Primary Grade. (Pianoforte.)

5. *Prepared Work.* One of the following:—

Any one Prelude & Fugue of Book I.....BACH
(Novello)
or
Choral Prelude, "Herzlich thut mich verlangen".....BACH
or
Choral Prelude, "Puer natus in Bethlehem".....BACH
(Novello, Bk. XV and Book XVIII)
and
Any one of A Little Organ Book.
(Year Book Press)
or
Largo (only) from "Largo, Allegro, Aria and 2 Variations"
MICHAEL FESTING
(Ed. Ball—Novello)
or
No. 2 from "Three Preludes on Melodies from the Genevan Psalter.....CHARLES WOOD
(Stainer & Bell)

6. *Questions.*

Questions will be asked on notes, rests, marks of expression and time of pieces and studies; also questions on key signatures.

Marks

The following system of marking is adopted in all grades:

Scales and Arpeggios	10
Pedal Exercises	10
Ear Tests	10
Questions	10
Sight Reading	15
Registration	15
Phrasing, legato, musicianship, rhythm	30
	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Highest Distinction 95-100.

SINGING

Highest Grade

Before a certificate can be issued to a successful candidate for this grade the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Technical Studies.*
   See the special set of technical exercises, scales and arpeggios referred to on page 718. Candidates must be prepared to sing all these from memory, without accompaniment, in several keys varying according to the class of voice, using vowel sounds only.

2. *Ear Tests.*
   Candidates must be able to name, by interval or note, any diatonic or chromatic interval above or below a certain given note, within the limits of an octave; also to say whether a common chord is major or minor and to distinguish a dominant 7th chord from a common chord. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the piano after the examiner.

3. *Reading at Sight.*
   One of the tests must be sung either to one vowel throughout, or to solfeggi, and the other tests to the words.

4. *Prepared Work.*
   Studies.
   Soprano or Tenor—Any two from No. 34 to the end.
   First Series of Solfeggios.....Vittorio Ricci
   Alto or Bass—Any two from No. 26 to the end.
   Second Series of Solfeggios.....Vittorio Ricci

Medium Voices—Any two from No. 24 to the end.
Third Series of 45 Solfeggios.....VITTORIO RICCI

or

Any two, from 30 to the end, of 50 Lessons.....CONCONE

Pieces.

NOTE.—*Candidates may transpose their songs to the extent of a tone lower or higher.*

(a) A RECITATIVE and ARIA from any ORATORIO or OPERA. Students will find the following books useful for making suitable selections:—

HANDEL—Twelve songs from the Oratorios, published in separate books for each voice by Novello & Co.

MENDELSSOHN—Solo music from "Elijah," published in separate albums for each voice by Novello & Co.

ROYAL OPERATIC ALBUMS—Published separately for each class of voice by Boosey & Co.

SACPED SONGS—Published separately for each class of voice in the "Imperial Edition," by Boosey & Co. The numbers in this edition are as follows:—Soprano 31, Contralto 42, Tenor 44, Baritone and Bass 32, *or* any Recit. and Aria from the Oxford Series of BACH and HANDEL ARIAS.

(Oxford University Press)

(b) Two songs of contrasted character to be chosen from any two of the following composers:—BRAHMS, SCHUBERT, SCHUMANN (any one from Liederkreis, Op. 39), PARRY, STANFORD, SCOTT, IRELAND, SCARLATTI, RACHMANINOFF, HOLST, VAUGHAN-WILLIAMS, PETER WARLOCK. (One modern song should be chosen.)

(c) Candidates in each class of voice must also be prepared to sing one song of their own selection and one Folk Song from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS.

(Novello)

5. *Questions.*

Questions will be asked on the style, modulations, marks of expression, occurring in the pieces prepared, and the candidate must also be ready to answer elementary questions on Physiology of the Voice.

The attention of candidates is drawn to the system of marking and directions printed on page 718.

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 718. Candidates must be prepared to sing from memory all those arranged for this particular Grade, without accompaniment, in several keys, using vowel sounds only.

2. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the piano after the examiner.

3. *Reading at Sight.*

This test may be sung to one vowel sound throughout, or to solfeggi. A specimen is printed in the set of technical exercises.

4. *Prepared Work.*

Studies.

Soprano or Tenor—Any three from No. 16 to No. 33.
First Series of 50 Solfeggios.....Vittorio Ricci
Alto or Bass—Any three from No. 13 to No. 23.
Second Series of 40 Solfeggios.....Vittorio Ricci
Medium Voices—Any three from No. 10 to No. 23.
Third Series of 45 Solfeggios.....Vittorio Ricci

or

Any three (from No. 15 to the end) of 25 Lessons.....Concone
Contralto, Baritone and Bass.

or

Any three (from 15 to 40) of 40 Lessons.....Concone

or

Any three (No. 10 to end) of 42 Vocalises (Part I).....Panseron

or

Any three (No. 20 to 50) of 50 Lessons.....Concone

or

Any three (from No. 21 to the end) of 32 Vocalises
(Ditson Edition).....Sanders

Pieces.

(a) One of the easier Arias from either an Oratorio or Opera contained in the works mentioned in the Highest Grade.

(b) Two songs *of contrasted character* from the following lists:—

[*Candidates may transpose their songs to the extent of a tone lower or higher.*]

For Soprano, Mezzo-Soprano, Contralto

The Bells of San Marie ..... JOHN IRELAND
My True Love Hath My Heart ..... JOHN IRELAND
Lullaby ..... CYRIL SCOTT
The Angel ..... WAGNER
The Quiet Night (Nacht und Traüme) ..... SCHUBERT
Summer Night ..... ARMSTRONG GIBBS
Dream in the Twilight (Op. 29, No. 1) ..... STRAUSS
All Souls' Day (Op. 10, No. 8) ..... STRAUSS
The Heart Worships ..... HOLST
Devon Maid ..... FRANK BRIDGE
Christmas Eve at Sea ..... MALCOLM DAVIDSON
To the Queen of Heaven ..... DUNHILL
Sleep ..... PETER WARLOCK
The Water Mill ..... VAUGHAN-WILLIAMS
Silent Noon ..... VAUGHAN-WILLIAMS
Bluebells from the Clearings ..... ERNEST WALKER
Ferry Ahoy ..... BREWER
Roseen'du ..... BAINTON
A Sea Dirge ..... DUNHILL
It Was a Lover and His Lass ..... MORLEY
Immortality ..... CYRIL SCOTT
A collection of 50 Irish Melodies ..... C. V. STANFORD
Invocation (Soprano) ..... BRYCESON TREHARNE

For Tenor, Baritone, Bass

Song Cycle, "The Wind Among the Reeds" (any one) ..... DUNHILL
(Pub. by Stainer & Bell)

Silent Noon ..... VAUGHAN-WILLIAMS
Summer Night ..... ARMSTRONG GIBBS
Quiet Night (Nacht und Traüme) ..... SCHUBERT
Come Away, Death ..... T. ARNE
Verrath ..... BRAHMS
Christmas Eve at Sea ..... MALCOLM DAVIDSON
Dead, Long Dead (from the "Maud" Cycle) ..... A. SOMERVELL
When I Am Laid in Earth (tenor only) ..... PURCELL
The Water Mill ..... VAUGHAN-WILLIAMS
Ethiopia saluting the colours (baritones and bases only) ..... C. WOOD
Invictus ..... ARMSTRONG GIBBS
By a Bier Side ..... ARMSTRONG GIBBS
My Heart Now is Merry (Phoebus & Pan) ..... BACH
O Mistress Mine ..... PETER WARLOCK
Dream in the Twilight (Op. 29, No. 1) ..... STRAUSS
A Farewell (tenor) ..... BRYCESON TREHERNE
Montarrat (baritone) ..... BRYCESON TREHERNE

At Night (baritone).....Bryceson Treherne
All Soul's Day (Op. 10, No. 8).....Strauss
A Shropshire Lad (any one).....A. Somervell
English Lyrics, Third Set (any one).....C. H. Parry
A Collection of 50 Irish Melodies.....C. V. Stanford
Eleanore.....Coleridge-Taylor
O Vision Entrancing.....Goring Thomas
I Have Twelve Oxen.....John Ireland

(c) Candidates in each class of voice must also be prepared to sing one song of their own selection, not included in the above lists, and one Folk Song from "A Selection of Collected Folk Songs," C. Sharp and Vaughan-Williams (Novello).

5. *Questions.*

Questions will be asked as to the keys through which the music passes and as to the marks of direction and expression found in the pieces and studies prepared.

The attention of candidates is drawn to the system of marking and directions given on page 718.

Intermediate Grade

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 718. Candidates must sing from memory, with or without accompaniment (at the discretion of the examiners), any or all of the exercises arranged for this Grade in the various keys most suited to the particular voice.

2. *Ear Tests.*

Candidates must be able to name by interval or note (as they prefer) with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the keynote is left to the examiner. A rhythmical test is also given (which the candidates will be required to tap or sing), as well as a melodic test which the candidates must hum, sing or play on the piano after the examiner.

3. *Reading at Sight.*

This test may be either sung to one vowel sound throughout, or to solfeggi. A specimen will be found printed in the special set of technical exercises.

4. *Prepared Work.*

Studies.

Soprano or Tenor—Two from No. 1 to 15.

First Series of 50 Solfeggios.....VITTORIO RICCI

Any two from 1 to 19 of 50 Lessons.....CONCONE

Alto or bass—Two from No. 1 to No. 12.

Second Series of 40 Solfeggios.....VITTORIO RICCI

Medium Voices—Two from No. 1 to No. 10.

Third Series of 45 Solfeggios.....VITTORIO RICCI

or

Any two from 1 to 15 of 25 Lessons.....CONCONE

Contralto, Baritone and Bass.

Any two from 1 to 9 inclusive of 42 Vocalises.....PANSERON
(Part 1.)

Any two from 1 to 15 of 40 Lessons.....CONCONE

Two songs of contrasted character, selected from one of the following lists, and also two Folk Songs from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello), and one song of candidate's own choice.

Candidates may transpose their songs to the extent of a tone lower or higher.

FOR SOPRANO:—

Five Miniature Ballads (any three as one).....W. Y. HURLESTONE

Where the Bee Sucks. (Pub. by Boosey).....ARNE

Bel Amie.....} as one.....J. S. FORD

A Word of Thine. (Pub. by Schirmer).....}

Cradle Song.....GREIG

Yarmouth Fair.....PETER WARLOCK

Sweet and Twenty.....PETER WARLOCK

I Heard a Piper Piping.....PETER WARLOCK

Love's Philosophy.....ROGER QUILTER

To Daffodils.....ROGER QUILTER

A Child Asleep.....ELGAR

Blackbird Song.....CYRIL SCOTT

Second Song Cycle (any two of the four as one).....PERRIN
(Published by Stainer & Bell, London)

A Widow-Bird Sat Mourning.....BRYCESON TREHERNE

FOR MEZZO-SOPRANO:—

My True Love Hath My Heart.....PARRY

I Heard a Piper Piping.....NORMAN PETERKIN

Slow, Horses, Slow.....ARMSTRONG GIBBS

Ring Out, Wild Bells.....C. L. BAINTON

Twelve Oxen.....PETER WARLOCK

The Jocund Dance.....ROGER QUILTER

Song of the Palanquin Bearers ..... Martin Shaw
Songs of Innocence (one only) ..... Harold Darke
As I Walked Forth and Infant Joy ..... Hubert Foss
Five Miniature Ballads (any three) ..... W. Y. Hurlestone
Shepherd Love ..... H. Claxton
12 Songs, Op. 35 (any one) (Novello) ..... Schumann
Spirit's Song ..... Haydn
La Vision ..... Schumann
What Tho' I Trace ..... Handel
Voi che Sapete (Nozze di Figaro) ..... Mozart
Child, What Sings the Morning ..... A. Mallinson

FOR CONTRALTO:—

10 Canzonets (any one) (Novello) ..... Haydn
Pieta Signor ..... Stradella
One Summer Night ..... Grieg
Evening Song ..... Schumann
Pull Away Home ..... Gordon Jacob
The King's Way ..... Elgar
Evening Hymn ..... Purcell
L'Heure Exquise ..... Poldowski
Hame ..... Walford Davies
Morning Hymn ..... Henschel
As I Walked Forth and Infant Joy ..... Hubert Foss
The Sea Wrack ..... Hamilton Harty
The Hero ..... Schumann
Uphill ..... Bryceson Treherne
Where Corals Lie ..... Elgar
The Leaves and the Wind ..... Leoni

FOR TENOR:—

I attempt from Love's Sickness to Fly ..... Purcell
Milkmaid Song ..... Stanford
Waft Her, Angels ..... Handel
Sweet and Twenty ..... Peter Warlock
Sigh No More, Ladies ..... Aiken
Minnelied ..... Brahms
Cavatina, from "Magic Flute" ..... Mozart
Eleanore ..... Coleridge-Taylor
La Charmante Marguerite ..... Old French
And So I Made a Vilanelle ..... Cyril Scott
Over the Western Sea ..... Mallinson
Four Songs from the Cherry Gardens ..... Sterndale Bennett

FOR BARITONE:—

I Attempt from Love's Sickness to Fly ..... Purcell
As I Walked Forth and Infant Joy ..... Hubert Foss

Linden Lea ..... VAUGHAN-WILLIAMS
Easter Snow ..... arr. by STANFORD
The Red Fuchsia Tree ..... ROGER QUILTER
The Palatine's Daughter ..... NORMAN PETERKIN
An Old Carol ..... ROGER QUILTER
Morning Hymns ..... HENSCHEL
Yarmouth Fair ..... PETER WARLOCK
The Wanderer ..... SCHUBERT
No Word from Thee ..... TSCHAIKOWSKY
Four by the Clock (Cavalier's Song) ..... MALLINSON
Pipes of Pan ..... ELGAR
O Cessate di Piagarmi ..... SCARLATTI
Canzone (L'Addio) ..... MOZART
Weep Ye No More ..... ROGER QUILTER
Comme Raggio di Sol ..... CALDARA
Mariage des Roses ..... CESAR FRANCK
The Swan Bent Low ..... MACDOWELL
Lungi dal caro bene ..... SECCHI

FOR BASS:—

Droop Not, Young Lover (Golden Treasury of Songs) ..... HANDEL
Vittoria ..... CARISSIMI
Serenade ..... TSCHAIKOWSKY
Sing Ho, for the Horned Owl (Pub. by Schirmer) ..... J. S. FORD
Easter Snow ..... arr. by STANFORD
The Faithless Shepherdess ..... ROGER QUILTER
Wiegenlied ..... BRAHMS
Bois Epais ..... LULLY
Through the Ivory Gate ..... PARRY
Sands o' Dee ..... CLAY

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the time and key of the pieces and studies prepared.

The attention of candidates is drawn to the system of marking and directions given on page 718.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 718.

Those arranged for this particular Grade must be sung from memory, with or without accompaniment, at the discretion of the examiner, in those keys which are most suited to the individual voice.

2. *Ear Tests.*

To name by interval or note (as candidates prefer), with middle C, G or F as the lower note, any note of the diatonic major scale struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the piano after the examiner.

3. *Reading at Sight.*

A specimen will be found printed in the special set of technical exercises.

4. *Prepared Work.*

Studies.
(For all voices.)
Any three from No. 13 to the end.
24 Little Solfeggios for Beginners, Appendix.....VITTORIO RICCI

Pieces.

Candidates in each class of voice must, *in addition* to their selections from the following lists, be prepared to sing a song of their own selection.

Any two of a contrasted character from one of the following lists:—

Candidates may transpose their songs to the extent of a tone lower or higher.

FOR SOPRANO:—

May Song (Golden Treasury).....BEETHOVEN
Folk Song from Haensel and Gretel.....HUMPERDINCK
Where the Bee Sucks (Key F).....ARNE
The First Primrose.....GRIEG
Thine Eyes Still Shine for Me.....PARRY
Holly Song.....HOWELLS
Tyrley Tyrlow.....WARLOCK
Pastorale.....arr. A. L.
Snow Flakes.....MALLINSON
The Cuckoo.....LIZA LEHMANN
The First Rose.....LIZA LEHMANN
Cradle Song, in G flat.....BRAHMS
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR MEZZO-SOPRANO:—

To Music (Golden Treasury, Vol. I).....SCHUBERT
The Poet's Song.....PARRY
The Little Red Lark (Key F).....IRISH
Lullaby in F.....MOZART
On Wings of Song.....MENDELSSOHN
What If I Never Speed (from 50 Dowland Songs, Bk. II, High Voice).....DOWLAND
(Stainer & Bell)
The Fiddler of Dooney.....R. MILFORD
When Icicles Hang by the Wall.....VAUGHAN-WILLIAMS
(Oxford Choral Songs—Oxford Univ. Press)
The Gipsy Girl.....R. MILFORD
This Joyful Eastertide.....arr. A. SOMERVELL
On Wings of Song.....MENDELSSOHN
Oh! Bother, Sang the Thrush.....LIZA LEHMANN
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR CONTRALTO:—

Slumber, Dear Maid (Largo).....HANDEL
My Love's An Arbutus.....STANFORD
Come, Gentle Night.....ELGAR
Weep You No More, Sad Fountains (from 50 Dowland Songs, Low Voice, Bk. II).....DOWLAND
(Stainer & Bell)
Cradle Song.....BYRD
Nachklang (Tears), Op. 59, No. 4.....BRAHMS
Sapphic Ode.....BRAHMS
Scheiden und Meiden (Parting).....BRAHMS
Ständchen (Serenade).....BRAHMS
O, Willow, Willow (Folk Song).....arr. WHITTAKER
(Oxford University Press)
Eyes of Night.....GRAHAM PEEL
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR TENOR:—

And Shall Trelawney Die?.....GORDON SLATER
(Oxford University Press)
The Wind Mill.....COLIN TAYLOR
When as the Rye.....P. WARLOCK
Laughing Song.....GORDON JACOB
The Talisman.....SCHUMANN
Caro mio ben.....GIORDANI
Farewell, Dearest Gretchen.....GADE

Vieille Chanson (In the Woods) (Key F) ..... BIZET
Sérénade ..... SCHUBERT
A Last Year's Rose ..... R. QUILTER
My Lovely Celia—Old English air ..... arr. by LANE WILSON
Tell Me, My Heart (E flat) ..... BISHOP
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR BARITONE:—

The Self-Banished ..... BLOW
Fairest Isle (Golden Treasury) ..... PURCELL
Song of the Imprisoned Huntsman ..... SCHUBERT
Slumber, Dear Maid (Largo) ..... HANDEL
The Ploughboy ..... WM. SHIELD
(Oxford University Press)
O Sweet Flower / or / There is a Lady — Published together (Oxford Choral Songs) ..... COOPER / FORD
The Jolly Carter ..... arr. by E. J. MOERAN
(Oxford Press)
Love Me or Not ..... SECCHI
In Summer Time on Bredon ..... GRAHAM PEEL
A Lover's Garland ..... C. H. PARRY
Souvenir ..... CESAR FRANCK
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR BASS:—

The Sandman ..... BRAHMS
Sapphic Ode ..... BRAHMS
When Two That Love Are Parted ..... SECCHI
For the Mountains Shall Depart (from Elijah) ..... MENDELSSOHN
An Old English Love Song ..... LANE WILSON
The Fisher Maiden (Key F) ..... SCHUBERT
Sun of the Sleepless ..... SCHUMANN
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and time of the pieces prepared.

The attention of candidates is drawn to the system of marking and direction given on page 718.

ELEMENTARY GRADE

No written examination in theory need have been passed by candidates before entering for this examination.

1. *Technical Studies.*

See special set of technical exercises, scales and arpeggios referred to in previous grade.

Candidates must be able to sing with or without accompaniment (at the discretion of the examiner) in the various keys suited to the individual voice, all those exercises arranged for this particular Grade.

2. *Ear Tests.*

With any note chosen by the examiner about the middle of the keyboard as the lower note, to distinguish between the major or minor 3rd, perfect 5th and perfect octave from that note.

3. *Reading at Sight.*

See specimen on the same page as technical exercises.

4. *Prepared Work.*

Studies.

FOR SOPRANO AND MEZZO-SOPRANO:—

Any three from No. 1 to No. 12.
24 Little Solfeggios from Beginner's Appendix.....VITTORIO RICCI
Pieces (which may be transposed to the extent of a tone higher or lower).

A. Any two of the following:—

"Songs for the Young" (Augener Edition No. 8931).
"Popular Nursery Songs," arranged by.....BRAHMS
(Augener Edition No. 8886)
"Six Children's Songs," Op. 59.....ARENSKY
(Published by Breitkopf & Haertel)
"Six Little Songs" (Augener Edition No. 8952).....WECKERLIN
"Seven Children's Songs" (Augener Edition No. 8833).....GRIEG
"It was a Lover and his Lass" (Novello).....MORLEY
"The Sandman".....BRAHMS
"Fine Knacks for Ladies" (Stainer & Bell).....DOWLAND
"Six Songs" (Joseph Williams).....W. H. HADOW
Who is Sylvia.....SCHUBERT
Elizabethan Love Songs (Boosey & Co.) arranged.....F. KEEL

B. Any one of the following Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello): "The Fox," "The Holly and the Ivy," "As I walked Through the Meadows," "Dashing Away With the Smoothing Iron," "I Will Give My Love an Apple," "I'm Seventeen Come Sunday," "William Taylor."

5. *Questions.*

Questions will be asked on notes, rests, marks of expression and time of pieces and studies, also on key signatures, etc.

The attention of candidates is drawn to the system of marking and directions given below.

Marks

The following system of markings will be adopted:—

	Primary Elementary and Junior Grades	Intermediate Senior and Highest Grades
Posture and Facial Expression	8	8
Intonation	8	10
Accuracy as to Notes and Rests	10	..
Breath Control, Production of Voice	10	12
Blending of Registers	6	6
Attack	8	8
Diction	8	10
Expression, Phrasing, etc	8	10
Reading at Sight	10	8
Ear Tests	8	10
Scales and Arpeggios	10	10
Questions	6	8
Total	100	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Highest Distinction 95-100.

Directions to Candidates

1. Candidates may bring an accompanist, who, however, must retire from the examination room directly the prepared pieces which need accompaniment have been rendered.

2. A complete set of the technical exercises, scales and arpeggios required for all the five grades can be obtained at a cost of 25c, post free, from the General Secretary at the McGill University Conservatorium of Music, Montreal.

3. Candidates should be provided with two copies of each of the studies and pieces.

4. In all grades, songs can be sung by candidates *with either the original words or a translation.*

GENERAL SCHOOL EXAMINATION IN INSTRUMENTAL OR VOCAL INSTRUCTION

On application to the General Secretary, McGill University Conservatorium of Music, Montreal, a general school examinations can be arranged for any time during the year. The expense must, of course, vary according to the length of the railway journey the Examiner has to take. Due notice should, therefore, be given to the Secretary, so that he may be able to arrange the visit of the Examiner at a time when he is somewhere in the district, when the fee will be $20.00 for the first hour and $10.00 for each succeeding hour. Not less than one hour can be arranged for. It is understood that no individual reports will be sent in on the work submitted, but only a general report made on each branch of music. (Class singing, referred to hereafter, may be taken as one branch of this examination.)

INSTRUMENTAL ENSEMBLE EXAMINATION

Classes of strings or wind *or* strings *and* wind combined may be entered.

Examinations are also held in

PIANOFORTE CLASS WORK
CLASS SINGING EXAMINATION

This examination is not necessarily confined to an examination at a school. Any teacher may enter a class for examination. A short general report will be rendered to the person who enters the class for examination, and the details of the report will be given on the following lines:—

Accuracy as to Notes, Rests, etc.
Maintenance of Pitch.
Balancing of Parts and Groupings of Voices.
Articulation and Pronunciation.
Quality of Tone.
Expression and Conception of the works performed.
Sight Singing.
Performance of Vocal Exercises.

Requirements

1. The class must sing the vocal exercises prescribed, each group of the voices singing them separately in the keys best suited to the voices.*

2. At least two short compositions of different character and not in unison must have been previously prepared.

3. Sight Singing from the staff notation.

Three short tests of varying difficulty will be given.

*These exercises can be obtained on separate sheets from the Secretary, McGill University Conservatorium of Music, price 25c per dozen, post free, on receipt of remittance.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the degree of Bachelor of Music, may proceed to the Degree of Doctor of Music. Candidates must present 1. A composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying not less than forty minutes in performance; *or* 2. A composition such as an opera, (not light opera), oratorio or cantata. In the event of a work under section 2 being offered, the first number must be an introductory orchestral movement in the form of a concert overture, it must contain some eight part vocal writing and fugal treatment and must be scored for a full orchestra. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition is necessary, together with a critical knowledge of the full scores of certain prescribed work.

Graduates in music of other Universities can, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus.Bac., if they wish to proceed to the further degree of Mus.Doc., provided they secure permission to do so from the Dean of the Faculty of Graduate Studies and Research. The period of seven years referred to above will be counted from the date on which they received the degree of Bachelor of Music from their own University.

EXAMINATION REQUIREMENTS FOR DEGREE OF DOCTOR OF MUSIC

Harmony up to eight parts.
Counterpoint up to eight parts (Strict and free).
Instrumentation.
Canon four and two.
Fugue up to five parts.
History of Music.
Form and Analysis.

(Latter based on knowledge of Beethoven's nine symphonies, Brahms' first and fourth symphonies, Strauss' Till Eulenspiegel Op. 28, either Bach's Magnificat or Beethoven's Mass in D Op. 123, and Mozart's Marriage of Figaro, or Wagner's Tannhauser, Wagner's Prelude & Liebestod (Tristan & Isolde) Humperdinck's Overture to Hansel & Gretel & Brahms' Tragic Overture (Op. 81).

McGILL UNIVERSITY

MONTREAL

FACULTY OF GRADUATE STUDIES AND RESEARCH

1940 - 1941

INDEX

	Page
Administrative Officers	735
Admission	737
Bursaries	738
Civil Servants	743
Classes of Students	737
Classification of Marks	743
Cognate Subjects	743
Committee on Research	735
Degrees	738
Departments of Study—	
Agronomy	753
Anatomy	754
Animal Nutrition and Breeding	755
Bacteriology	755
Bacteriology (Agricultural)	756
Biochemistry	757
Botany	757
Chemistry	758
Chemistry (Agricultural)	762
Civil Engineering and Applied Mechanics	763
Classics	764
Comparative Philology	764
Economics and Political Science	765
Education	766
Electrical Engineering	766
English	767
Entomology	770
Experimental Medicine and Surgery	771
French	772
Genetics	775
Geological Sciences	776
German	778
Greek	764
History	778
Horticulture	780
Latin	764
Mathematics	781
Mechanical Engineering	782
Metallurgical Engineering	784
Mining Engineering	783
Neurology and Neurosurgery	785
Parasitology	786
Pathology	787
Pharmacology	787
Philosophy	788
Physics	788
Physics (Macdonald College)	793
Physiology	793
Plant Pathology	794
Psychology	795
Sociology	796
Theological Studies	797
Zoology	797

	Page
Faculty Members	736
Fees	739
Fellowships, Scholarships and Medals	738
French Summer School	773
General Rules	742
General Statement	737
Graduate Students' Association	741
Laboratories and Libraries	797
Language Examinations, Ph.D	748
Macdonald College Courses	738
Major and Minor Subjects	742
Marks, Classification of	743
Medals	738
Members of the Faculty	736
Ph.D. Language Examination	748
Registration	737
Regulations concerning Theses	750
Regulations for Degrees—	
Doctor of Civil Law (D.C.L.)	749
" " Letters (D. Litt.)	749
" " Music (Mus. Doc.)	750
" " Philosophy (Ph.D.)	747
" " Science (D.Sc.)	749
Master of Arts (M.A.)	744
" " Science (M.Sc.)	745
" " Engineering (M. Eng.)	745
" " Civil Law (M.C.L.)	746
" " Commerce (M. Com.)	746
Research Associates	741
Research, Committee on	735
Research Fellows	742
Resident Graduate Study	743
Rules, General	742
Scholarships	738
Temporary Research Assistants	742
Theses	750
Tuition Fees	739

McGILL UNIVERSITY

FACULTY OF GRADUATE STUDIES AND RESEARCH

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, B.Com., M.A., Ph.D.

Dean of the Faculty of Graduate Studies and Research.....John J. O'Neill, M.Sc., Ph.D., F.R.S.C.

Secretary of the Faculty of Graduate Studies and Research.....A. Norman Shaw, M.A., D.Sc., F.R.S.C.

Secretary and Bursar.....F. O. Stredder, M.A., Ph.D.
(on military service)

Registrar.....T. H. Matthews, M.A.

Acting Bursar.....W. Bentley, C.G.A., A.C.I.S.

A complete list of the teaching staff of the University, including the Faculty of Graduate Studies and Research, is printed as a separate announcement, which may be obtained from the Registrar's Office

COMMITTEE ON RESEARCH

Dean J. J. O'Neill, Chairman

Professor J. S. Foster
Professor Otto Maass
Professor Wilder Penfield
Professor J. B. Collip
Professor C. L. Huskins
Professor W. D. McFarlane
Professor E. R. Adair
Professor J. C. Hemmeon

FACULTY OF GRADUATE STUDIES AND RESEARCH

(As selected by the Committee on Research in May, 1940)

Dr. J. J. O'Neill (Geological Sciences)—Dean of the Faculty.
Professor E. R. Adair (History)
Dr. B. P. Babkin (Physiology)
Dr. W. H. Barnes (Chemistry)
Professor J. W. Bell (Mining)
Dr. N. J. Berrill (Zoology)
Dean W. H. Brittain (Entomology)
Dr. J. S. L. Browne (Experimental Medicine)
Dr. T. W. M. Cameron (Parasitology)
Dr. J. B. Collip (Biochemistry)
Professor P. E. Corbett (Roman Law)
Professor J. G. Coulson (Plant Pathology)
Dr. E. W. Crampton (Animal Nutrition and Breeding)
Dr. C. A. Dawson (Sociology)
Dr. J. P. Day (Economics and Political Science)
Dr. H. G. Files (English)
Dr. J. S. Foster (Physics)
Dr. D. K. Froman (Physics)
Dr. J. E. Gill (Geological Sciences)
Dr. W. H. Hatcher (Chemistry)
Dr. J. C. Hemmeon (Economics and Political Science)
Dr. H. Hibbert (Chemistry)
Professor J. Hughes (Education)
Dr. C. L. Huskins (Genetics)
Dr. C. E. Kellogg (Psychology)
Dr. D. A. Keys (Physics)
Dr. D. McEachern (Neurology)
Professor J. U. MacEwan (Metallurgy)
Dr. W. D. McFarlane (Agricultural Chemistry)
Dr. C. Macmillan (English)
Dr. O. Maass (Chemistry)
Dr. J. C. Meakins (Experimental Medicine)
Dr. N. W. Morton (Psychology)
Dr. E. G. D. Murray (Bacteriology)
Dr. F. F. Osborne (Geological Sciences)
Dr. W. Penfield (Neurology)
Professor L. C. Raymond (Agronomy)
Dr. G. W. Scarth (Botany)
Dr. H. Selye (Histology)
Dr. A. N. Shaw (Physics)
Dr. D. L. Thomson (Biochemistry)
Dr. W. H. Watson (Physics)
Dr. C. A. Winkler (Chemistry)
Professor V. C. Wynne-Edwards (Zoology)
Dr. W. D. Woodhead (Classics)

GENERAL STATEMENT

The Faculty of Graduate Studies and Research directs and controls all courses leading to higher degrees and recommends candidates for these degrees.

The members of the Faculty are selected by the University Committee on Research (see page 735). Under the University Statutes this Committee is responsible for organizing and coordinating programmes and courses of research. The Dean of the Faculty is Chairman of the Committee.

ADMISSION

Advanced courses of instruction are offered to students who are graduates of any University of recognized standing, and who have at least second class honours, or the equivalent of at least second class honours as granted by McGill University, in the subject in which they desire to take their major work. In the particular case of students proceeding to an M.A. degree in Education, distinction in the general course will be accepted as a qualification for admission. Admission to these advanced courses does not in itself imply candidacy for a higher degree.

CLASSES OF STUDENTS

1. Those admitted to the Faculty as regular students studying for a higher degree are termed "graduate students."

2. Those qualified students who are permitted to take one or more courses in the Graduate Faculty, without intention of proceeding to a degree, are termed "partial students of the Graduate Faculty."

3. Those students who are not sufficiently prepared to rank as "graduate students" can apply to the respective Faculties for admission to undergraduate studies. These students are not registered in the Graduate Faculty, but must register as partial students in the undergraduate Faculty in which they take courses.

REGISTRATION

Applications for registration as a graduate student should be made in triplicate on special printed forms which may be obtained at the Dean's Office. Applicants who are not McGill graduates must submit a certified copy of their complete academic record. These applications, duly signed, must reach the Dean's Office not later than October 5th, 1940, otherwise a late fee of $5.00 will be charged.

Candidates must consult the Department or Departments in which they intend to study, regarding the course they desire to pursue, in time to attend the regular courses of instruction which begin on September

30th, 1940. Formal application for permission to attend courses must be filled up by the student and signed by the Chairman or Chairmen of these Departments, by the Professors under whom the applicant intends to study, and filed with the Dean of the Faculty of Graduate Studies and Research as early as possible, and at the latest by October 5th.

As soon as the candidate's course has been approved by the Division of the Faculty concerned, he must register without delay at the Registrar's Office. He will not be given credit for attendance until he does so. Candidates must register and pay their fees not later than October 19th, 1940. otherwise the prescribed penalty for late registration and late payment of fees will be enforced.

Candidates whose courses extend for more than one year must fill in application forms and register at the commencement of each year of their course. If not registered at the beginning of the academic year, as provided above, the candidates will not be eligible for the degree at the following Spring Convocation.

Candidates who have completed their courses, who have not yet presented their thesis, and who are no longer in residence at McGill University, must register at the beginning of the session in which they present their thesis, with the usual registration fee of $10. It is also necessary for them to register at the Registrar's Office, by correspondence, in order to keep their name on the books of the University.

DEGREES

Graduate students may proceed to one or other of the following degrees:—Master of Arts, Master of Science, Master of Engineering, Master of Commerce, Master of Civil Law, Doctor of Philosophy, Doctor of Civil Law, Doctor of Letters, Doctor of Science, Doctor of Music.

COURSES AT MACDONALD COLLEGE

Graduate students who are taking the major part of their work at Macdonald College may go into residence there and can take, when required, other graduate courses given at the University.

Students wishing to reside in Macdonald College should send in their application for accommodation to the Registrar, Macdonald College, Que., as soon as possible.

Any fees in connection with courses taken at Macdonald College are payable to the Bursar of Macdonald College.

FELLOWSHIPS, SCHOLARSHIPS AND MEDALS

Details of Fellowships, Scholarships, Bursaries, Medals and Loan Funds available for graduate students will be found in the Announcement of Scholarships, Bursaries, Prizes and Loan Funds.

In several Departments graduate students are eligible for demonstratorships and instructorships. Information concerning these may be obtained from the Chairman of the Department concerned.

FEES

1. For degree of M.A. (non-science subjects)
   M.Com. and M.C.L.
   - First Year Students $145.00
   - Any subsequent year of residence 130.00

2. For degree of M.A. (Science subjects involving laboratory work)
   M.Sc., and M.Eng.
   - First Year Students 165.00
   - Any subsequent year of residence 155.00

3. For degree of Ph.D. (non-science subjects)
   - First Year Students (See Section 7) 145.00
   - Second Year Students 130.00
   - Third Year Students 130.00
   - Any subsequent year of residence 25.00

4. For degree of Ph.D. (Science subjects involving Laboratory work)
   - First Year Students (See Section 7) 165.00
   - Second Year Students 155.00
   - Third Year Students 155.00
   - Any subsequent year of residence 155.00

5. A student who has completed his course but has not completed his thesis pays a registration fee of $10.00 at the beginning of the session in which he intends to present his thesis. If he has not paid tuition fees in accordance with the above schedule, he is also required to pay a Graduation Fee of $20.00 for a Master's degree and $35.00 for a Ph.D. degree.

6. A student permitted by his Department to take the work for the Master's degree spread over more than one year pays the first year's fee, and a fee of $25.00 for each subsequent year of residence. If a course or courses have to be repeated the regular fee applies.

7. The year or years of study for the Master's degree counts as the first year of the Ph.D. degree.

8. A student permitted by his Department to take the work for the Ph.D. degree spread over more than three years pays a fee of $25.00 for each year of residence subsequent to the third year. If a course or courses have to be repeated the regular fee applies.

9. Any student taking a lecture course or doing laboratory work or receiving guidance or consultation from any member of the staff is considered to be in residence. He must register and pay fees as above.

10. The full fees are inclusive, and cover tuition, laboratory, graduation, library, health and athletics and Graduate Students' Association.

11. Students taking qualifying courses register in the Faculty in which they are taking the courses, and pay the partial tuition fee of that Faculty with a maximum of $155.

12. A Graduation Fee of $100.00 is payable for the degree of D. Litt., D.C.L., D.Sc., and Mus.Doc. and should be forwarded with the application.

13. A candidate for any of the above degrees who fails in his thesis may present a revised thesis once again, for a subsequent Convocation, upon payment of the following fees:

Master's Degree	$10.00
Ph.D. Degree	20.00
D.Litt., D.C.L., D.Sc. & Mus.Doc.	50.00

There is no fee for the degrees when granted "honoris causa."

14. For degree conferred "in absentia" 10.00

15. Fees for Supplemental Examinations, granted under special circumstances, by permission of the Dean, are payable in advance, per paper 10.00

16. The fee for special Ph.D. language examinations is 5.00

The fee for Supplemental Examinations in Ph.D. French and German Reading if taken at the regular time is 5.00

17. French Summer School students taking the advanced Summer Course in French are remitted $25.00 from the M.A. fee for each Summer Session but are required to pay the Enrolment Fee when submitting their application to the Graduate Faculty. Students who have completed four Summer Sessions in French (or the equivalent) are excused the in absentia fee when they obtain an M.A. degree.

18. Fees are due and payable at the Bursar's Office on or before October 19th. If paid by instalments the second instalment is due on February 1st. An additional $5.00 is charged for payment by instalments. An additional $2 is charged for payment after the specified dates.

19. Immediately after October 19th a list of students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students cannot be re-admitted to any class until instructions have been received from the Bursar that the fees have been paid.

20. Late fees are charged as follows:—

Application forms, after October 5th	$5.00
Registration at Registrar's Office, after October 19th	5.00
Payment of fees, after October 19th	2.00

21. Each student in Chemistry is required to deposit the sum of $20 as Caution Money, to cover 10% of the cost of all chemicals and other supplies used by the student, and damage done to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session.

22. All resident students with the exception of those at Macdonald College, are entitled to the following health and athletic privileges:—

(a) Medical examination; daily consultation service and hospital treatment, as furnished to undergraduates.

(b) Tennis privileges during the session and summer privileges on the same basis as undergraduates. (Present summer fee $5.00).

(c) Social skating privileges on the campus rink.

(d) Opportunities for exercise with various athletic clubs and eligibility for intercollegiate and other teams.

At Macdonald College, graduate students are required to live in residence and are entitled to medical attendance, major operations excepted, on the same basis as other students in residence. Graduate students at Macdonald College are entitled to participate in the activities of the various organizations and have one representative on the Men's Residence Committee. Graduate students who desire to take part in Athletics may do so upon the payment of the regular undergraduate subscription. A special fee is payable by those who desire student publications and the use of tennis courts.

23. All students in the Faculty of Graduate Studies and Research are members of the Graduate Students' Association.

24. All fees are payable in Canadian currency.

RESEARCH ASSOCIATES

This title is intended to provide recognition, and status on the University records for investigators of mature scholarship who are not members of the staff of McGill University but are attached temporarily to a department on the grounds that their assistance is *required in the interests of a current programme of research.*

Research Associates must not be proceeding to a degree, nor must they be receiving emoluments for the research work they are performing, unless these funds are derived from some institution for the advancement of learning, outside McGill University.

RESEARCH FELLOWS

The title of Research Fellow is intended to apply to investigators of academic standing junior to that of the Research Associate. They cannot be proceeding to a degree, nor may they be members of the staff of McGill University, but the receipt of a grant or scholarship from McGill University or any other institution for the advancement of learning shall not be considered to disqualify them for this title.

TEMPORARY RESEARCH ASSISTANTS

Other persons who are assisting in research carried on in any department and (a) who are not considered as eligible for either of the above titles, and (b) who are neither graduate students nor members of the staff of McGill University, may be given the title of Temporary Research Assistants.

GENERAL RULES CONCERNING HIGHER DEGREES

1. Members of the teaching staff of the University who are also students in the Graduate Faculty and who give more than three hours of lectures or six hours of conference work or twelve hours of supervisory work in laboratories per week; or any student doing an equivalent amount of work inside or outside the University, may not obtain the Master's degree in one year, and will require at least four years for the degree of Ph.D. Members of the teaching staff only may apply in writing to the Dean, on the written recommendation of the Chairman of the Department, to pay half fees for each of two years that shall count as one year of residence.

2. No full-time student registered in any professional Faculty of the University may register for a graduate degree without the special permission of both Faculties in full session.

3. A candidate with a given higher degree may be permitted to proceed to a second degree of the same kind, but in another subject, provided that the usual requirements for the degree are entirely fulfilled and approved as usual by the Department concerned.

4. Major and Minor Subjects. A higher degree is granted in the Faculty of Graduate Studies essentially for work in one subject, known as the student's *major subject*. In certain cases, a *minor subject* may also be taken if this subsidiary subject is approved by the Chairman of the Department which has charge of the major subject and by the Chairman of the Department of the minor subject. A student should determine whether he is to take a minor subject or not by consulting the Chairman of the Department of his major subject.

5. COGNATE SUBJECTS. Certain allied or "cognate" courses may also be taken in conjunction with the major subject. These must be entered on the application form and signed by the Chairman of the Department concerned.

6. Each Department has full liberty to recommend or require a student to take a course or courses in another Department.

CLASSIFICATION OF MARKS

100-75%	First Class
74-60%	Second Class
Below 60%	Failure

THE DEGREES OF MASTER OF ARTS (M.A.), MASTER OF SCIENCE (M.Sc.), MASTER OF ENGINEERING (M.ENG.), MASTER OF CIVIL LAW (M.C.L.,) AND MASTER OF COMMERCE (M.COM.)

1. NORMAL PROCEDURE FOR THE MASTER'S DEGREE.

When the application of a student to enter the Faculty has been approved, the student must fill out his registration forms (obtained from the Dean's office) in triplicate, under the direction of the Chairman of the Department of his major subject, and his director of research, both of whom will sign the forms. The three registration forms must be completed and submitted to the Dean for approval by the Faculty before October 5th. Fees must be paid before October 19th, as soon as the registration forms have been marked approved by Faculty and returned.

Examinations. The student must pass the examinations of the courses he has taken and the marks or classes he obtains are part of his qualifications for the degree. All courses entered on the application forms are for examination, unless otherwise stated.

Thesis. He must also present a thesis on some topic connected with his major subject. The title of the thesis must have been previously submitted to the Chairman of the Department concerned for his approval in writing. It must be in some measure a contribution to knowledge and must also be written in good literary style. *For further information regarding theses, see page 750.*

Residence. At least one full session or two half-sessions of resident study at McGill University is required for a Master's degree.

2. SPECIAL CONCESSIONS FOR CIVIL SERVANTS.

With regard to the M.Sc. and M.Eng. (which may be the first year of the Ph.D. course), the following concessions are approved:

(1) Candidates for the degrees of M.Sc. or M.Eng. who are graduates of McGill University and have had two or more years' experience in a Government Department, performing as their main duty, work of the same type as that proposed for research, may, on recommendation of a Department and with the approval of the Faculty in full session, have their residence requirements reduced to one-half session only. It is understood that these candidates must take the usual final examination in all subjects required.

No special concessions can be made to Civil Servants who are graduates of universities other than McGill.

(2) A Government laboratory may be approved by the Faculty as a research institution (see page 747).

3. THE DEGREE OF MASTER OF ARTS.

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Arts is provided in the following Departments of study, which rank as "subjects":—

*Botany	*Geological Sciences
*Chemistry	German
*Chemistry (Agricultural)	History
Classics	Mathematics
Economics and Political Science	Physics
Education	Philosophy
English Language and Literature	Psychology
French Language and Literature	Sociology
*Genetics	*Zoology

Certain Theological studies may be taken as a minor subject only. See page 797.

Candidates must hold the degree of B.A. They must have obtained at least a second class in an Honours course at McGill University, or its equivalent elsewhere in the subject or subjects which they propose to study.

---

*May not be selected as a major subject for the M.A. degree.

4. The Degree of Master of Science.

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Science is provided in the following Departments of study:

Agronomy
Anatomy
Animal Nutrition and Breeding
Bacteriology and Immunity
Bacteriology (Agricultural)
Biochemistry
Botany
Chemistry
Chemistry (Agricultural)
Entomology
Experimental Medicine and Surgery
Genetics
Geological Sciences
Horticulture
Mathematics
Neurology and Neurosurgery
Parasitology
Pathology
Pharmacology
Physics
Physiology
Plant Pathology
Psychology
Zoology

Candidates must hold a Bachelor's degree with at least second class in an Honours course at McGill University, or its equivalent. Candidates with an M.D. degree must have attained high standing.

5. The Degree of Master of Engineering.

Instruction for the degree of Master of Engineering is given in the following Departments of study, which rank as "subjects", in which definite courses may be selected:

Chemical Engineering
Civil Engineering
Electrical Engineering
Mechanical Engineering
Metallurgical Engineering
Mining Engineering

Candidates must hold the Degree of Bachelor of Engineering, or an equivalent degree, and their undergraduate academic rank must, in general, be equivalent to high second-class standing.

The establishment of the Degree of Master of Engineering does not prevent a properly qualified holder of the Degree of Bachelor of Engineering, or the equivalent, from proceeding to the Degree of Master of Science in pure science.

6. The Degree of Master of Civil Law.

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Civil Law is provided in the following Departments of study which rank as "subjects."

Roman Law

Civil Law

Commercial and Maritime Law

Public Law

(Courses in all subjects will not necessarily be offered each year.)

Candidates must hold the degree of B.C.L. from McGill University, or its equivalent. They must be well qualified students who have obtained at least second class honours in the subject which they propose to take and in the course as a whole.

One only of the above subjects may be taken.

Each candidate is required to take at least one course in his subject involving at least one year of resident study.

In addition he is required to meet in personal conference, at least once a week, the professor under whose supervision he is preparing his thesis.

For further details consult the Secretary of the Faculty of Law.

7. The Degree of Master of Commerce.

The candidate must hold the degree of B.Com.

Graduates of the School of Commerce at McGill must have passed the full course in Economics laid down in the undergraduate curriculum with at least a creditable average second class standing.

Graduates of other universities must offer the equivalent of the McGill requirements in Economics and Political Science.

Application for admission must be approved by the Acting-Director of the School of Commerce and the Chairman of the Department of Economics.

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

1. Candidates for the degree of Doctor of Philosophy must hold the degree of B.A. with Honours, or B.Sc. with Honours, or B.Eng. with Honours, or B.Sc. (Agr.) with Honours, or M.D. with Honours from McGill University or its equivalent.

2. They must follow a course of at least three years' resident study at a University or other institution of higher learning or research. Of these three years, at least one year for graduates of McGill and two years for candidates who are not graduates of McGill, must be spent at this University, including preferably the final year. The other years may be spent at institutions approved by the Faculty. The Faculty may make special exceptions to these general regulations concerning residential study.

A student who has obtained his Master's Degree at McGill University or elsewhere and is proceeding to a Ph.D. counts the work done for the former as the first year of his resident study for the Doctor's degree.

3. Candidates must select one major subject. Minor or cognate subjects may be selected, with the consent and approval of the Chairman of the Department in which the major subject is taken, subject to the advice and agreement of the Chairmen of the other Departments concerned.

Courses leading to the degree of Doctor of Philosophy are offered in the following as major subjects:—

Agricultural Chemistry
Anatomy
Bacteriology and Immunity
Biochemistry
Botany
Chemistry
Economics and Political Science
Entomology
Experimental Medicine and Surgery
Genetics
Geology
History
Neurology and Neurosurgery
Parasitology
Pathology
Pharmacology
Physics
Physiology
Plant Pathology
Psychology
Zoology

In special cases, Departments may be able to provide courses in other subjects which will lead to this degree. Candidates, therefore, desiring to proceed to the degree of Doctor of Philosophy in other Departments than those mentioned above should make direct application to the Dean of Graduate Studies and Research, asking whether courses in such subjects can be provided.

4. The course of study which the candidate desires to follow must, before he enters upon it, have been submitted to the Chairmen of the several Departments concerned and have received their approval.

5. *Preliminary Examination.* The first two years include instruction, training and direction in the candidate's field of study, with the object of giving him a knowledge of his particular subject and its relation to cognate branches of learning and of preparing him for independent investigation.

The candidate's preliminary examination is held at the end of the second year, or at a time selected by the Chairman of the major Department, unless otherwise specified by Departmental regulations approved by the Faculty. This examination covers all graduate work previously taken by the candidate, including his prescribed reading and may also include any work fundamental thereto. The candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. The examination is both written and oral.

The result of this examination determines whether the candidate is allowed to proceed to his degree. The final year is devoted chiefly to the preparation of his thesis.

After his thesis has been received and approved, a special and more searching final oral examination on the subject of his thesis and subjects more intimately related to it is held. This is conducted in the presence of a Committee of at least four members of the Faculty of Graduate Studies.

6. Every candidate must satisfy the Faculty of Graduate Studies and Research that he has a reading knowledge of French and German.

The language examinations are set by the Department in which the candidate is taking his major; the passages chosen are typical of the literature of his major subject, and the Department concerned may conduct and correct the examination, if it so desires.

Candidates are advised to take one language at the commencement of their first year and the other at the commencement of the second year, but both language tests should be passed not later than one month before the preliminary Ph.D. examinations. These examinations are held during the first ten days of December without fee. Examinations may be held at other dates only under exceptional circumstances, and with the approval of the Dean, in which case a fee of $5.00 per candidate must be paid in advance, for each examination.

7, *Thesis*. The thesis for the Doctor's degree must display original scholarship expressed in satisfactory literary form and be a distinct contribution to knowledge. The subject of this thesis must have been approved, in writing, by the Chairman of the Department in which the major subject is taken, and also by the Faculty of Graduate Studies and Research, at least twelve months before the date of the final examination.

8. Three copies of the thesis must be provided by the candidate.

9. The regulations concerning theses are stated on pages 750 to 752, Special regulations for the Ph.D. in Economics are stated on page 765 and in History on pages 779, 780.

REGULATIONS FOR THE DEGREE OF DOCTOR OF CIVIL LAW (D.C.L.)

Any person who has graduated as a B.C.L. from McGill University may after seven years from such graduation proceed to the degree of Doctor of Civil Law, provided he has distinguished himself by eminent services in the domain of law, and provided he has written a thesis on a subject previously approved by the Faculty of Graduate Studies and Research, and that such thesis has been adjudged by that Faculty to be a valuable contribution to legal science. The candidate may, instead of a thesis, submit a published book or books dealing in a scientific way with some branch or branches of law. A very high standard is required for this degree, but it does not call for any resident graduate study in the University.

REGULATIONS FOR THE DEGREE OF DOCTOR OF LETTERS (D.LITT.)

Bachelors of Arts of McGill University who are graduates of at least seven years' standing, and have distinguished themselves by special research and learning in the domain of arts and literature, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Letters. A very high standard is required for this degree which does not call for resident graduate study at the University. Graduates of other Universities are not eligible for this degree. All applications should be addressed to the Dean of the Faculty of Graduate Studies and Research, McGill University.

REGULATIONS FOR THE DEGREE OF DOCTOR OF SCIENCE (D.Sc.)

Bachelors of Arts, Bachelors of Science, Bachelors of Engineering, or Doctors of Medicine of McGill University who are graduates in one or other of these Faculties of at least seven years' standing and who have distinguished themselves by special research and learning in the domain of science, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Science. A very high standard is required for this degree, but it does not call for resident graduate study at the University. Graduates of other Universities are eligible for this degree, only if they have been for a minimum of seven years members of the professorial staff of McGill University. All applications should be addressed to the Dean of the Faculty of Graduate Studies and Research, McGill University.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC (Mus.Doc.)

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the degree of Bachelor of Music, may proceed to the degree of Doctor of Music, the requirements for which are a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the form of a concert overture, must contain some eight-part writing and fugal treatment, and must be scored for a full orchestra. If preferred, a candidate may present a composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying not less than forty minutes in performance. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition is necessary, together with a critical knowledge of the full scores of certain prescribed work.

Graduates of other Universities may, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus.Bac., if they wish to proceed to the further degree of Mus.Doc., provided they secure permission to do so through the Faculty of Graduate Studies and Research from the Senate of the University, the period of seven years referred to above to be counted from the date on which they received the degree of Bachelor of Music from their own University.

Requirements for Mus. Doc.

Harmony up to eight parts; Counterpoint up to eight parts (Strict and free); Instrumentation; Canon four and two; Fugue up to five parts; History of Music; Form and Analysis based on knowledge of Beethoven's nine symphonies, Brahms' second and third symphonies, Strauss Tone Poem, Death and Transfiguration, Wagner's Meistersinger and Tannhauser Overtures, either Bach's St. Matthew Passion or Beethoven's Mass in C, and Mozart's Magic Flute or Wagner's Parsifal.

REGULATIONS CONCERNING THESES

In the case of students who wish to graduate at the Spring Convocation, all theses for a Master's degree which do not involve experimental work, must be handed to the Dean of the Faculty of Graduate Studies and Research not later than April 24th. Theses for the degree of Ph.D must be handed in on or before April 19th.

All theses for the degree of Master of Science, or of Engineering which involve experimental work, must be in the hands of the Dean not later than May 3rd.

The theses of students who wish to graduate at the Fall Convocation, must be in the hands of the Dean of the Faculty of Graduate Studies and Research not later than September 3rd.

All theses submitted by successful candidates for higher degrees are bound and placed in the Library. Candidates for such degrees are therefore advised that the Faculty of Graduate Studies and Research requires these to be prepared in accordance with the following specifications:—

(1) The paper is to be of uniform size, 8½ x 11 inches, and of substantial quality.

(2) The left-hand margin is to have a uniform width of about 1½ inches. Drawings larger than the prescribed page should be folded in the manner most suitable for binding.

(3) Theses must be typewritten and in triplicate. Ultimately one copy is deposited in the McGill Library, one in the Departmental Library, and one is returned to the candidate.

(4) No binding is necessary, but the loose sheets must be placed, unfolded, in a manila envelope in the order of their pagination. On the outside of each envelope must be written clearly the name of the candidate, title of thesis, degree, date, and Copy I, II or III.

(5) Copies of the thesis must be double-spaced and free from typographical and other errors, otherwise they will be returned to the candidate for revision, with possible consequent delay in the granting of the degree.

(6) Every thesis should have an abstract and a sufficient table of contents, and a thorough bibliography on the subject. Scientific theses should also contain an introductory historical statement of previous work or investigation, and a summary. In the case of the Ph.D. degree, there should be a clear statement of the claim of original work or contribution to knowledge made by the author.

(7) In the case of candidates presenting themselves for the degree of Doctor of Science, Doctor of Letters or Doctor of Civil Law, three copies of the book or books—or for the degree of Doctor of Civil Law, should a thesis be substituted, three typewritten copies of the thesis—must be submitted to the Dean of the Faculty of Graduate Studies and Research not later than February 14th of the year in which the candidate desires to take the degree

(8) If a thesis is rejected it cannot be submitted again, in a revised form, more than once.

SUMMARIES OR ABSTRACTS OF THESES

(9) Three copies of a statement must also be presented, on a separate sheet, giving the author, title of thesis, and a summary not exceeding 150 words. These statements are printed and circulated to various Libraries, to the Deans and Chairmen of Departments at McGill University, to members of the Association of American Universities and to Canadian Universities. For all particulars, apply to the Secretary to the Dean of the Faculty.

COURSES OF GRADUATE STUDY

DEPARTMENT OF AGRONOMY
(Macdonald College)

Professor.....ROBERT SUMMERBY
Assistant Professors.....L. C. RAYMOND, E. A. LODS
Lecturer.....J. N. BIRD

The Department is well equipped to conduct research with crop plants particularly in relation to breeding.

All the important periodicals, scientific journals, books and bulletins on Agronomy and related subjects, are available to students in either the McGill, Macdonald College or Agronomy Department Libraries.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Candidates who take Agronomy as a major subject must have had a good training and achieved high standing in Agronomy, Botany, Chemistry, and Genetics. Those who have not had adequate training in these subjects must rectify any such deficiency.

A. EXPERIMENTATION.
One lecture and two laboratory periods per week for one term.
Professor Summerby.

B. HAY AND PASTURE CROPS.
Two lectures and one laboratory period per week for one term.
Mr. Bird.

C. CORN AND ROOT CROPS.
Two lectures and one laboratory period per week for one term.
Professor Raymond.

D. GRAIN CROPS.
Three lectures and three laboratory periods per week for one term.
Professor Lods.

E. SEMINAR.
Fortnightly, during the year. Professor Summerby and Staff.

Students whose major subject is Agronomy may elect, or may be required to take courses in allied subjects.

It is recommended that candidates spend at least one summer in the Department before or during the course.

40/4

DEPARTMENT OF ANATOMY

Professor of Anatomy.....C. P. MARTIN
Professor of Histology and Embryology.....J. C. SIMPSON
Assistant Professor of Anatomy.....
Assistant Professor of Histology....H. SELYE
Lecturer in Histology.....A. J. DALTON

The department offers facilities for research work leading to the degrees of Master of Science and Doctor of Philosophy in Anatomy.

QUALIFICATIONS FOR ADMISSION

All candidates should consult the Chairman of the Department before entering these courses.

Candidates must have attained high standing in Anatomy 1 and 2 or in Microscopic Anatomy 5 and Embryology 7 at McGill, or the equivalent. They must have obtained a B.Sc., B.A., or M.D. degree.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. Advanced laboratory work in Anatomy.

or 2. Experimental Morphology (Anatomy 6).

and 3. Physical Anthropology (Anatomy 4).

or 4. Participation in the Biological Seminars.

5. Cognate Subjects:—Depending on the particular branch of Anatomy in which any candidate may be working, the Chairman of the Department can require him to attend any other course given in the University, subject to the consent of the Chairman of the Department concerned.

The thesis must be on some approved subject in Anatomy, Physical Anthropology, or Microscopic Anatomy.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Following the work for the Master of Science degree, the student must specialize in either:—

(a) Macroscopic Anatomy, including Comparative Anatomy and Physical Anthropology.

or (b) Microscopic and Experimental Morphology, taking cognate courses in Cytology and Genetics.

A comprehensive examination will be held at the end of the second year.

The general rules of the Faculty concerning residence, examinations, research, and thesis requirements are stated elsewhere.

DEPARTMENT OF ANIMAL NUTRITION AND BREEDING

(Macdonald College)

Professor.....R. L. CONKLIN
Associate Professor.....E. W. CRAMPTON
Assistant Professor.....W. A. MAW

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Adequate facilities are available for the courses listed below and for research.

A. NUTRITION.

1A—Animal Nutrition.....Professor Crampton
2A—Poultry Nutrition.....Professor W. A. Maw
Hours variable

B. ANIMAL BREEDING. (Facilities for poultry work only).

Hours variable.....

C. ANIMAL PHYSIOLOGY.

Prerequisite: The undergraduate course in Physiology offered at Macdonald College or its equivalent. It is also advised that the student have some knowledge of Comparative Anatomy.

(a) Lectures and demonstrations. Physiology of digestive-genito-urinary systems and the endocrine glands.

Times to be arranged.....Professor Conklin

D. EXPERIMENTATION. Hours variable.....Professor Crampton

E. SEMINAR.....Staff

M.Sc. Course Requirements: For major in Nutrition, Course A, D and E. For major in Breeding (poultry), Courses B and E, Major work is not offered in Course C.

BACTERIOLOGY

Professor.....E. G. D. MURRAY
Associate Professor.....FREDERICK SMITH
Assistant Professor.....T. E. ROY
Lecturers.....C. D. KELLY, W. H. MATHEWS*, C. R. BREWER

Qualifications for admission to the Course.

(1) A B.Sc. degree with at least second class honours in Bacteriology and Immunity at McGill University, or its equivalent elsewhere.

or (2) An M.D. degree with high standing in Bacteriology, Pathology, and Immunity.

*On military service.

COURSES AND OTHER FACILITIES AVAILABLE.

A. The more advanced lectures and classes given in the Department to the Science Division of the Faculty of Arts and Science, and to the Faculty of Medicine will be available to candidates for the M.Sc. degree.

B. Conferences will be held with candidates guiding them in their reading, helping with technique, and discussing the theory and practice of Bacteriology and Immunity, as well as of individual researches.

C. The practice of the Clinical Bacteriological Services in relation to the Hospitals will also be available to candidates as a means of instruction and a source of material for research and study.

Requirements for the M.Sc. and Ph.D. degrees (see pages 745, 746).

DEPARTMENT OF AGRICULTURAL BACTERIOLOGY
(Macdonald College)

Associate Professor.....P. H. H. GRAY
Lecturer.....N. B. McMASTER

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. SOIL MICROBIOLOGY.....Professor Gray

Reference book: Waksman: Principles of Soil Microbiology: 2nd edn. (Williams & Wilkins, Baltimore).

B. FOOD BACTERIOLOGY.....Mr. McMaster

C. PHYSIOLOGY OF MICRO-ORGANISMS.....Professor Gray

Text-book: Rahn: Physiology of Bacteria (Blakiston, Philadelphia).
Reference book: Buchanan & Fulmer; Physiology and Biochemistry of Bacteria; (Williams & Wilkins, Baltimore).

D. COLLOQUIUM. (One hour weekly) Review of literature, discussion, and criticism.....The Staff

A minimum of one lecture and one colloquium hour, and six laboratory hours weekly in any one course will form the basis of instruction. Candidates are required to take Courses C and D, with either A or B.

DEPARTMENT OF BIOCHEMISTRY

Professors.....{J. B. Collip
D. L. Thomson

Lecturers.....{O. F. Denstedt
A. H. Neufeld

The Biochemical Laboratories are especially equipped for research on endocrine problems, but ample facilities are also provided for research in other aspects of Biochemistry.

Candidates who have satisfactorily completed the Honours course in Biochemistry as undergraduates may present themselves for examination for the M.Sc. degree at the end of one year's graduate work in the Department; all others are expected to spend two years in the Faculty of Graduate Studies and Research before going forward for the degree. Candidates for the Ph.D. degree must pass a general examination in Biochemistry, but will be judged principally by the ability they display in research. Candidates for either degree are expected to attend Course A (below) and may, according to their qualifications, be required to take undergraduate courses 2, 3, 4 or 5 in Biochemistry or other cognate subjects. (See Arts and Science Announcement).

A. Recent Advances in Biochemistry.

Lectures: Wednesday at 5.

Text-books:—Peters and van Slyke, "Quantitative Clinical Chemistry" (Williams & Wilkins); Allen, "Sex and Internal Secretions" (Williams & Wilkins); Luck, "Review of Biochemistry" (Stanford Univ.); Harrow and Sherwin, "Text-Book of Biochemistry" (Saunders).

DEPARTMENT OF BOTANY

Professor.....George W. Scarth

Assistant Professors.....{R. D. Gibbs
Muriel V. Roscoe

Lecturer.....

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for Higher Degrees

A. Cellular and Experimental Plant Physiology.

Friday 2 and 3. Laboratory hours to be arranged.

Professor Scarth.

B. Plant Biochemistry.

Tu., Th., at 11. Laboratory hours to be arranged.

Professor Gibbs

C. Biochemical Plant Physiology.
Hours to be arranged.....Professor Gibbs.

D. Micro-technique and Histology.
Second term. Wed. at 11. Six laboratory hours.
Professor Roscoe.

E. Technical Plant Anatomy (for cellulose chemistry students).
Given in alternate years: next in 1941-42.
Second term: Hours to be arranged.
Botany I during the first term forms part of the course for students who have not passed its equivalent.
Professor Gibbs.

F. Special Topics.
Prescribed reading and conference.
The Staff.

G. Graduate Course in a Cognate Subject, e.g.:
Genetics
Plant Pathology, or
Zoology.

H. Biological Colloquium.

Requirements for the Master's Degree

The candidate must satisfy requirements in two of the above courses and also attend the colloquium.

Requirements for the Degree of Doctor of Philosophy

Second year students will take one of the above courses which they did not follow during their M.Sc. year. Further instruction is given mainly by way of conference and direction of study.

DEPARTMENT OF CHEMISTRY

Professors.....O. Maass, Harold Hibbert, W. H. Hatcher
Associate Professors.....J. B. Phillips, J. H. Mennie, W. H. Barnes
Assistant Professors.....C. A. Winkler, R. V. V. Nicholls
Lecturer.....J. H. Ross

Adequate laboratory and library facilities are available for the courses listed below and for research. The Pulp and Paper Research Institute affords ample facilities for research on the structure and properties of carbohydrates, cellulose, lignin, wood, and pulp and paper.

Courses for Higher Degrees

A. Advanced Organic.

Three hours per week.....Professor.....

B. Structural Organic Chemistry.

Two hours per week.....Professor.....

D. Advanced Inorganic.

Two hours per week, first term .....Professor Mennie.

E. Advanced Inorganic.

Two hours per week, second term.....Professor Mennie.

F. Advanced Physical.

(a) Properties of Matter.....2 hrs. per week, 1st term
(b) Physico-chemical Equilibria.....2 hrs. per week, 2nd term
(c) Phase Rule.....1 hr. per week, 1st term
(d) Atomic Structure and Radio-activity..1 hr. per week, 2nd term
Professor Maass.

Any or all of these sub-divisions, as well as a course in theoretical calculations, may be required.

G. Colloid Chemistry.

One hour per week.....Professor Winkler.
Laboratory courses are available in all of the above when required.

H. History of Chemistry.

One hour per week.....Professor Barnes.
The above courses are available for Honours students in Arts and Science and students in Chemical Engineering.

J. Colloquium—Organic.

One hour per week.....Professors Hibbert and Hatcher.

K. Colloquium—Inorganic and Physical.

Two hours per week.....Professors Maass and Winkler.

L. Cellulose, Lignin, and Related Compounds.

One hour per week.....Professor Hibbert.

M. Physical Properties and Chemical Constitution of Organic Compounds.

One hour per week.....Professors Barnes and Hatcher.

N. CHEMICAL PHYSICS.

Two lectures per week.....Professor Winkler.

The subject matter varies from year to year. Topics include chemical kinetics, photochemistry, molecular structure, quantum mechanics, etc.

O. ELECTROCHEMISTRY.

This course is available for Honours students in Arts and Science and students in Chemical Engineering.

One hour per week.....Professor Mennie.

P. THEORY OF HYDROGEN ION MEASUREMENTS.

One hour per week, First term.....Professor Mennie.

Q. THERMODYNAMICS.

This course is also available for Honours students in Arts and Science and for students in Chemical Engineering.

Two hours per week.....Professor Winkler.

R. CHEMICAL ENGINEERING.

Advanced topics. Two hours per week.....Professor Phillips. Graduate students are expected to attend the weekly meetings of the Chemical and Physical Societies.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE

I. Students are required to take examinations in (a) Organic, (b) Inorganic, (c) Physical, (d) Colloid Chemistry, and other assigned courses, if any. Students are expected to have covered the subject matter of at least two of the above courses on entrance to the Faculty.

II. *Colloquium*—one per week.

Students are required to present and discuss in an acceptable manner papers dealing with fundamental and recent work.

III. *Special Graduate Lectures.*

Students are required to pass examinations on the subject matter of such lectures as relate to their particular work.

MASTER'S DEGREE IN CHEMICAL ENGINEERING

Students who hold a Bachelor's degree in Chemical Engineering have the option of studying for the Master of Science degree in Chemistry or the Master of Engineering degree in Chemical Engineering.

The following courses are required for the Master of Engineering degree:

I. Advanced Chemical Engineering R; with one of the following: Organic Chemistry A, Inorganic Chemistry D and E, Physical Chemistry F.

II. One of the following: Chemical Physics N, Thermodynamics Q, Theory of Heat F; Cellulose L with Colloid Chemistry G.

III. Chemical Engineering Colloquium.

IV. Thesis on a Chemical Engineering subject.

Requirements for the Degree of Doctor of Philosophy

I. The research work in this Department may be conveniently considered under the following heads:—

(a) Organic Chemistry, (b) Inorganic Chemistry, (c) Physical Chemistry, (d) Colloid Chemistry, (e) Cellulose Chemistry.

One of these (under which the research falls) is designated the "principal subject" and each of the others a "secondary subject." Graduate students are required to take examinations in both "principal" and "secondary" subjects.

Principal Subjects:—Several examinations, both written and oral, are held. Students are responsible for the subject matter of all related lecture courses and assigned reading. Special courses given in other Departments may be assigned and examinations required.

Secondary Subjects:—The examinations are less rigorous than in the principal subject. The subject matter is more clearly defined and may include suitable lecture courses or texts, or both.

II. *Colloquium:*—As for M.Sc. see above.

Examinations in Chemistry

Principal Subjects:

1. An examination is held in May of the second year. Additional special examinations are held during the third year.

2. Candidates who fail in the May examination of the second year are required to repeat the year and the examination in the principal subject.

Secondary Subjects:

1. All examinations are available in May and September for candidates in the first two years.

2. A second supplemental examination in any one subject may be taken only on recommendation by the Department.

3. Examinations in all subjects must be passed by the end of September of the candidate's third year.

4. For candidates entering the third year, the September examinations are supplemental examinations only.

General:

1. A candidate who may wish to take examinations in any one or more secondary subjects in September of his entrance year is advised to consult the director of the Department as soon as possible.

2. In a secondary subject a Master of Science examination at McGill will be accepted as a Preliminary Ph.D. examination provided a standard required by the Department is obtained.

Also, candidates who believe they have the necessary qualifications may apply to the director of their research for exemptions from examinations in secondary subjects. Such qualifications include a high standing in an examination taken at McGill or other University in the secondary subject. The director of the candidate's research may grant this exemption only with the approval of the Department.

DEPARTMENT OF CHEMISTRY

(Macdonald College)

Professor.....W. D. McFarlane

Assistant Professors.....W. A. DeLong, C. L. Wrenshall

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for Higher Degrees

A. Chemistry of Soils.....Dr. Wrenshall and Professor DeLong. (Given second term 1941-42).

B. Plant Biochemistry.....Professors DeLong and McFarlane. (Given second term 1940-41).

C. Chemistry of Foods and Nutrition.....Professor McFarlane

Courses A and B consist of two hours lecture, with supplementary reading, and four to six hours laboratory work for one term. Course C is open in part to advanced undergraduates of the Faculty of Agriculture and School of Household Science as Chemistry 45, 46 and 47.

Requirements for the Master's Degree

1. Students may elect to conduct their research in Soil and Plant Chemistry (Group I) or in Physiological Chemistry (Group II).

2. Unless in special circumstances students are required to take the examinations of Group I or Group II.

Group I.—Major subjects—Courses A and B.

Cognate subjects—Either Advanced Organic or Advanced Physical Chemistry (McGill Department of Chemistry Courses A and F); Plant Physiology (Department of Botany Course B).

Group II.—Major subject—Course C.

Cognate subjects—Advanced Organic Chemistry (McGill Department of Chemistry Course A) and Recent Advances in Biochemistry (McGill Department of Biochemistry Course A).

3. Students are required to attend and participate in the department seminars.

Requirements for the Degree of Doctor of Philosophy

Special arrangements may be made for the Ph.D. degree in association with the McGill Department of Chemistry. Agricultural Chemistry is regarded as the principal subject and courses taken in the other departments mentioned in Regulation 3 (page 747) as secondary subjects.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

Professors.....{R. E. Jamieson, Ernest Brown, R. DeL. French}

Associate Professor.....G. J. Dodd

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Master's Degree

A. Statically Indeterminate Stresses.

One term, two hours tutorial, and six hours computation and reports.
Professor Jamieson.

B. Technical Elasticity.
One term, two hours tutorial, and six hours computation and reports.
Professor Jamieson.

C. Secondary Stresses.
One term, two hours tutorial, and six hours computation and reports.
Professor Dodd.

D. Highway Engineering.

Four hours tutorial, and twelve hours computation and reports.
Professors French and McKergow and staff.

Candidates for the M.Eng. degree will be expected to take at least two courses in addition to thesis work.

DEPARTMENT OF CLASSICS

Professors.....{William D. Woodhead
C. H. Carruthers

Associate Professor.....A. M. Thompson

Courses for the Degree of Master of Arts

Greek A: Greek Lyric Poetry. Readings from the Anthologia Lyrica Græca and other texts.
Two hours colloquia.....Professor Woodhead.

Greek B: History of the Epigram.
Two hours colloquia.....Professor Carruthers.

Greek C: The Republic of Plato.
Three hours.....Professor Woodhead.

Greek D: Aeschylus, Oresteia.
Two hours colloquia.....Professor Woodhead.

Latin A: Vergil, Aeneid.
Three hours.....Professor Thompson.

Latin B: Roman Satire.
Three hours.....Professor Thompson.

Latin C: Latin Epigraphy and Palæography.
Two hours colloquia.....Professor Carruthers.

Latin D: Roman Tragedy.
Two hours colloquia.....Professor Woodhead.

Courses in Comparative Philology

Professor.....C. H. Carruthers

A. Introduction to the Study of Language.

B. Latin Historical Grammar.

C. Greek Historical Grammar.

D. Elementary Sanskrit.

E. Greek Dialects.

F. Oscan and Umbrian.

All courses are colloquia of two hours weekly.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

Professors.....{Joseph Clarence Hemmeon
John Percival Day
Assistant Professor.....John Thomas Culliton
Lecturer.....Eugene Forsey
Sessional Lecturer.....Philip F. Vineberg

Courses for the Degree of Master of Arts

A. Contemporary Economic Theory.
First term.....Professor Hemmeon.

B. World Economic Survey Since the Great War.
Second term.....Professor Day.

C. Economic Journal Group.....Professor Culliton.

Students who have completed three full courses or their equivalent in the Department of Economics at Macdonald College, and have also completed at least two full courses or their equivalent in the Department of Economics and Political Science, with at least second class honours, are permitted to proceed toward the degree of Master of Arts.

Courses for the Degree of Doctor of Philosophy

1. First year of study:—The M.A. course and successful candidacy for the M.A. degree.

2. Second year:—An approved course of study at a University outside of Canada in continuance of the work on the thesis subject already selected.

3. Third year:—Resident study at McGill under the general supervision of the Department, with no fixed hours or fixed units, the work to bear on the thesis subject, such thesis to represent a genuine and useful contribution to the literature of Economics and Political Science.

4. The order of study of the Second and Third Year may be reversed.

5. The holder of a position on the staff of McGill may count his years in such a position as equal to resident study in the ratio of two teaching years to one of study.

DEPARTMENT OF EDUCATION

Professor.....JOHN HUGHES
Assistant Professor.....A. B. CURRIE

CONDITIONS OF ADMISSION:

Candidates for the degree of M.A. in Education must show (a) that they have satisfied the general conditions for registration as candidates for the M.A. degree as laid down on page 744 of the Announcement, or achieved distinction in the general course; (b) that they have attained a high standard (i.e. at least good second-class standing) in the work of the graduate year of training for the Teachers' High School Diploma, or its equivalent.

Candidates must also have done work in Psychology that is adequate for the needs of the M.A. course in Education, or else must complete an approved course in Psychology as part of their M.A. course.

COURSES FOR THE DEGREE OF MASTER OF ARTS

Satisfactory completion of the following courses and studies is required.

A. Seminar courses in two of the following:—
   (1) Secondary Education.*
   (2) Comparative Education.
   (3) Bilingual Education.

B. Studies of
   (1) The History of Education in Canada.
   (2) A Selected Period or Topic in the General History of Education.

C. An approved course in Philosophy, or Psychology, (prerequisite—two courses, including Course I).

D. Thesis.

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor.....CLARENCE V. CHRISTIE
Associate Professor.....G. A. WALLACE
Assistant Professor.....E. G. BURR
Lecturers.....W. H. SCHIPPEL, F. S. HOWES

Adequate laboratory and library facilities are available for the courses listed below and for research.

*In special cases candidates may substitute an approved course in Educational Psychology for this requirement, but they must then take the Philosophy course specified under C.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE OR MASTER OF ENGINEERING

A. ADVANCED MATHEMATICS.

Lectures, two hours a week.....

B. ELECTRICAL PHYSICS.

Lectures, two hours.....Professors Keys and Shaw.

C. ELECTROTECHNICS.

Lectures, two hours.
Colloquium, two hours.

The following courses are offered (each two hours for one term):—

(a) Design of Electrical Machinery. Professor Christie.

(b) The Protection of Electrical Power Systems. Professor Burr.

(c) Stability of Electrical Systems under normal and transient conditions; determination of short-circuit currents; design of generators and excitation systems for maximum stability.
Professor Christie and Mr. Schippel.

(d) Inductive Co-ordination of Power and Signal Systems.
Professors Christie and Wallace.

(e) Electric Circuit Analysis. Dr. Howes.

(f) Advanced Wire Transmission Theory. Professor Wallace.

DEPARTMENT OF ENGLISH

Professors.....{CYRUS MACMILLAN, HAROLD G. FILES
Associate Professor.....A. S. NOAD
Assistant Professor.....T. F. M. NEWTON

COURSES FOR THE DEGREE OF MASTER OF ARTS

A. OLD ENGLISH.

Prerequisite:—English 12 (in the undergraduate course).

Two hours.....Professor Newton.
(Not given in 1940-41).

B. THE ENGLISH AND SCOTTISH POPULAR BALLADS, with some attention to Canadian Folk-songs and Folk-tales and their relation to those of Europe. Lectures and theses.

Two hours.....Professor Macmillan.
(Given in 1940-41.)

C. CHAUCER.

Prerequisite:—English 14 (in the undergraduate course).

Two hours.....Professor Newton.

DEPARTMENT OF ENTOMOLOGY
(Macdonald College)

Professor.....W. H. BRITTAIN
Assistant Professor.....E. M. DUPORTE
Lecturers.....W. E. WHITEHEAD, F. O. MORRISON

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. TAXONOMY.

Each student must bring to the class a collection of the group of insects on which he desires to work, and may devote the greater portion of his time to a study of this group.

One lecture, one colloquium and four laboratory hours per week.
Professor DuPorte.

B. INSECT MORPHOLOGY.

One lecture, one colloquium and four laboratory hours per week.
Professor DuPorte.

C. ECONOMIC ENTOMOLOGY.

(a) *Principles of Insect Control.*

Two lectures per week and four colloquia.
Professor Brittain and Dr. Morrison.

(b) *Problems of Insect Control.*

Four laboratory hours per week throughout the year.
Professor Brittain and Dr. Morrison.

D. MEDICAL AND VETERINARY ENTOMOLOGY.

Two lectures, three laboratory hours per week for one term.
Professor DuPorte.

*E. ECOLOGY.

Two lectures a week, first term.....Professor DuPorte.

F. INSECT PHYSIOLOGY.

Two lectures and four laboratory hours per week.
Professor DuPorte.

G. SEMINAR.

One and one-half hours weekly....Professors Brittain and DuPorte.

---

*This course is also open to advanced undergraduates.

H. Research in Entomology.

Four laboratory periods per week.

Professor Brittain and Dr. Morrison.

Students are recommended to take courses offered by the Department of Zoology either as part of their major work or as a minor or cognate subject.

Ph.D. Requirements: The Ph.D. in Entomology may be awarded after the following requirements have been completed:

1. The student must spend two years of resident study and research at Macdonald College, and another year, taken preferably between these two years, at an approved institution other than McGill.
2. The student is also required to spend the equivalent of two summer seasons in research work at a Government laboratory or other approved research institution.

40/41

DEPARTMENT OF EXPERIMENTAL MEDICINE

Professor.....J. C. Meakins
Assistant Professor.....J. S. L. Browne
Lecturer.....J. F. McIntosh

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degree of Master of Science

Candidates for a Master of Science degree in Experimental Medicine must have had a high standing in the courses for the degree of Doctor of Medicine, particularly in the subjects of Physiology and Biochemistry, and candidates for the degree of Doctor of Philosophy must have obtained a high standing in the Master of Science degree if this has been taken.

A. Seminar. Experimental Medicine.

One hour a week.....Professor Meakins.
Dr. Browne and Dr. J. F. McIntosh.

B. Lectures. Advanced Course weekly on selected topics in General Medicine.

Professor Meakins and Dr. McIntosh.

C. Lectures. A weekly Course on selected topics in Endocrinology and allied subjects.....Dr. Browne.

D. Conferences will be held with candidates, guiding them in their reading and for criticism of their research.

E. COGNATE SUBJECTS. Each student will be required to take certain Courses in cognate subjects, depending upon the special field of Medicine in which his research work is directed.

All candidates for this degree must take all of the above courses and devote the remainder of their time to experimental research, the accomplishment of which, as embodied in their thesis, will be the main consideration in recommending them for this degree.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The above courses are continued throughout the first two years of graduate study while the final year is entirely devoted to research and this must be of a fundamental and far-reaching character.

ADVANCED STUDY

In addition to courses leading to the M.Sc. and Ph.D. degrees, the Faculty of Medicine offers opportunities for advanced study in the clinical field to properly qualified graduates who are willing to spend at least six months or a year on intensive work.

For information on such advanced study, graduates should apply to the Secretary of the Faculty of Medicine, McGill University.

DEPARTMENT OF FRENCH

Professor.....R. DU ROURE
Associate Professor.....JEAN DARBELNET*
Assistant Professors...{LUCIE TOUREN FURNESS / LOUIS D'HAUTESERVE}
Sessional Lecturer.....MME. P. L. LARIVIÈRE

COURSES FOR THE DEGREE OF MASTER OF ARTS

A. COMPARATIVE LITERATURE. (Department of English, Course M).
Three hours.....Professor Noad.

B. METHODOLOGIE.
One hour.....Professor du Roure.

C. LE THÉÂTRE EN FRANCE DE 1914 À 1936.
One hour.....Mme. Larivière.

D. EXERCISES PRATIQUES (Colloquia).
One hour.

*On military service.

*E. HISTOIRE DU ROMAN EN FRANCE.
Three hours. (Given in 1940-41).....Professor du Roure.

*F. HISTOIRE DE LA LANGUE FRANÇAISE.
One hour. (Given in 1941-42).....Professor d'Hauteserve.

*G. HISTOIRE DE LA POÉSIE LYRIQUE EN FRANCE.
Two hours. (Given in 1941-42).....Professor du Roure.

H. SURVEY OF CONTEMPORARY FRENCH LITERATURE
Two hours. (Given in 1941-42).....Mme. Larivière.

Candidates for the Master's degree in French only will take Course A (if not already taken), B, C and also D and one of E, F, G, H, I. Those taking French as a Major will omit A and either B or C.

Those taking French as a minor will take D and one of the one-hour courses.

The M.A. thesis must be written in French.

Students from other Provinces and States where the opportunities of speaking French are small cannot normally obtain an M.A. in less than two years.

FRENCH SUMMER SCHOOL

Under the regulations enumerated below qualified students may obtain the M.A. degree in French by successfully completing the work of not less than four sessions in Section C (the advanced section) of the French Summer School and presenting a thesis acceptable to the Faculty of Graduate Studies and Research.

1. All work carried on towards an M.A. degree in the French Summer School is under the control and supervision of the Department of French of the University.

2. The student must hold the degree of B.A. from McGill University or from another university of recognized standing; with at least second class honours in French or the equivalent of second class honours in French as granted by McGill University—which must necessarily include an ability to speak French fluently, and a sound knowledge of French Literature.

3. A student who has successfully completed four sessions of the French Summer School in the advanced section is considered to have passed the equivalent of the lecture courses required for the M.A. degree by the Department of French at McGill.

*These are also Honours courses in the Faculty of Arts and Science.

4. The first summer session consists of five courses, the second of four courses, the third of three courses and the fourth of two courses, each course consisting of three lectures per week, a proportionately increasing number of regular colloquia taking the place of lecture courses in the second, third and fourth years. The preparation of M.A. theses must be commenced in the third summer session at the latest. Phonetics and Course Number 37 in Section C can be taken in only one summer session, the latter course being obligatory. A course in Comparative Literature must be taken in each of the four summer sessions, unless a full course in this subject has already been taken as part of the student's undergraduate work.

5. One of the summer sessions may be replaced by equivalent work in France or at another French Summer School; for this the approval of the Graduate Faculty must be obtained.

6. On the satisfactory completion of two summer sessions of the advanced work, the student should apply to the Dean of the Faculty of Graduate Studies and Research for permission to register in that Faculty as a candidate for the M.A. degree; this application must be made in person at the Registrar's Office at the end of the second summer session. The written application should contain the title of the subject in French Language and Literature upon which the student is proposing to write his thesis. This application will be considered by the Graduate Faculty acting upon the advice of the Department of French.

7. The thesis must be written in French and must in some measure be a contribution to knowledge; its preparation must be carried on under the direction of the French Department. The satisfactory completion of all requirements of the four summer sessions and the acceptance of the thesis by the Faculty will fulfil the academic requirements necessary for the granting of the M.A. degree.

For further details of the French Summer School see the separate accouncement which may be obtained from the Registrar's Office.

DEPARTMENT OF GENETICS

Professor.....C. Leonard Huskins
Assistant Professor.....(to be appointed)

Courses for Higher Degrees

With the co-operation of the Department of Botany and the Faculty of Agriculture, adequate laboratory, greenhouse, field, and library facilities are available for research in Plant or Animal Genetics and Cytology.

A. Cytology.

B. Advanced Genetics and Cytology (Given in co-operation with the Faculty of Agriculture, Macdonald College).

C. Biometry. Applications of statistics to research problems in Biology—particularly in Genetics and Physiology.

D. Seminar. A course entailing the presentation by each student of at least six reports on current researches in Cytology and Genetics.

E. Biology Colloquium.

F. Botany A, B, C, or D, Zoology C, or D, or other subjects cognate to Genetics or Cytology.

Three or four of the above courses are required for the Master's degree.

A sound knowledge of General Biology is prerequisite.

The research problem may be in Genetics or Cytology, or Cytogenetics.

Requirements for the Degree of Doctor of Philosophy

For the degree of Ph.D. an advanced research standard is maintained. Course D must be taken in each year and papers must be presented in the general Biological Colloquium. Additional courses will be taken in cognate subjects. Only candidates who have shown indications of distinct research ability during their Master's training will be permitted to register for the Ph.D. degree.

DEPARTMENT OF GEOLOGICAL SCIENCES

Professors.....{John J. O'Neill, Richard P. D. Graham, T. H. Clark

Associate Professors.....{J. E. Gill, F. F. Osborne

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Master's Degree

A. Structural Geology.

Lectures and colloquia; Tu., and Th., at 10....Professor Gill.

B. Geological Colloquium.—This course must be taken by all graduate students in Geology in the first and second years.

Professor Osborne.

C. Ore Deposits.—As in "Mineral Deposits," by Lindgren; "Economic Aspects of Geology," by Leith, and assigned readings and problems.

Seminar, Mon. and Th. at 2....Professors O'Neill and Osborne.

D. Optical Mineralogy.

One lecture Mon. at 10, and three hours laboratory per week during the first term.....Professor Graham.

E. (a) Petrology and Petrography.—Lectures Mon., Wed., and Fri., at 9. Laboratory Tues., Wed., and Fri., 2 to 5.

Text-books:—Bowen, Evolution of Igneous Rocks, Princeton; Tyrrell, Principles of Petrology, Dutton; Harker, Metamorphism, Methuen.

F. Stratigraphy.

Two hours, first term; Mon., Fri., at 11. One hour laboratory, and two full days field work during October....Professor Clark.

G. Palaeontology.—Two hours, second term; Mon., Wed., at 11. Three hours laboratory, Wed., 2 to 5, and one full day's field work in April.....Professor Clark.

H. Physiography and Natural Resources of Canada.—Lecture Tu. at 12, and laboratory Th., 2 to 5.....Professor Gill.

Students who have satisfactorily completed undergraduate courses in General Geology, Mineralogy, Determinative Mineralogy, Petrography, Canadian Geology, Stratigraphy, Paleontology, Practical Geology and Ore Deposits, or their equivalents, may expect to com-

plete their M.Sc. course in one year; those specializing in Economic Geology must have certain Engineering credits in addition to the above.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

(Second and Third Years)

I. GEOLOGY AND PROBLEMS OF THE PRE-CAMBRIAN.

Lectures and seminar at least two hours per week; first term; Mon. and Th. at 10.....Professor O'Neill.

J. GEOLOGICAL MAP INTERPRETATION.

One hour seminar with assigned problems.

Fri. at 10.....Professor Gill.

K. APPLIED GEOPHYSICS (Physics; Graduate "W"). A course on the theory and practice of geophysical methods as applied to problems in engineering and geology.

Mon. and Wed. at 9. First term.....Professor Keys.

Text-book:—"Applied Geophysics," 2nd edition, Eve and Keys (Cambridge Univ. Press).

L. ADVANCED PETROLOGY AND PETROGRAPHY.—Seminar and at least nine hours laboratory work per week. Petrography Mon. and Fri. at 2; Wed. at 9.....Professor Osborne.

M. ADVANCED MINERALOGY.

Three hours seminar and laboratory per week.

Professor Graham.

N. ADVANCED STRATIGRAPHY.

Hours to be arranged.....Professor Clark.

O. PHYSIOGRAPHY.

Seminar Fri. at 11.....Professor Gill.

P. ADVANCED PALÆONTOLOGY.

Hours to be arranged.....Professor Clark.

†Q. ADVANCED ECONOMIC GEOLOGY.

Seminar, Tu. and Fri. at 2.....Professors O'Neill, Gill, and Osborne.

†R. ADVANCED STRUCTURAL AND DYNAMICAL GEOLOGY.—As in "Das Antlitz der Erde," vols. 1, 2, 3, and 4, by E. Suess, and numerous assigned papers.

At least two hours seminar per week. Tu. and Fri. at 2.

Professor O'Neill.

†Courses Q and R may be given in alternate years.

DEPARTMENT OF GERMAN

Associate Professor.....W. L. Graff
Lecturer.....J. R. Beck

Courses for the Degree of Master of Arts

The candidate's courses will be selected from the following:—

A. Goethe.
One hour.....Professor Graff.

B. Die Deutsche Novelle.
One hour.....Professor Graff.

C. Lessing.
One hour.....Professor Graff.

D. Das Drama im ig. Jahrhundert.
One hour.....Mr. Beck.

E. Die Romantik.
One hour.....Mr. Beck.

F. Gothic and Introduction to Germanic Philology.
One hour.....Professor Graff.

The thesis must be written in German.

DEPARTMENT OF HISTORY

Professor.....C. E. Fryer
Associate Professor.....E. R. Adair
Assistant Professor.....C. C. Bayley
Lecturer.....J. I. Cooper

Courses for the Degree of Master of Arts and Doctor of Philosophy

A. Historical Method and Criticism.
Seminar, one hour.....Professors Fryer and Adair.

B. The Early History of the English Parliament.
Seminar, one hour.....Professor Bayley.

C. England and Rome in the Later Middle Ages.
Seminar, one hour.....Professor Bayley.

D. The Reign of Charles I.
Seminar one hour.....Professor Adair.

E. William Pitt and the Conquest of Canada.
Seminar one hour.....Professor Adair.

F. Industrial Democracy in England.
Seminar, one hour.....Professor Fryer.

G. Problems in World Politics Since 1878.
Seminar, one hour.....Professor Fryer.

H. A Selected Period in the History of Canada, Down to 1867.
Seminar, one hour.....Professors Fryer and Adair.

I. A Selected Topic in Canadian History, 1867-1896.
Seminar, one hour.....Dr. Cooper.

J. History of a Quebec Parish.
Seminar, one hour.....Professor Adair.

Graduate work in the Department of History is directed through seminars and conferences. Students are expected to acquire a sound knowledge of methods of historical research and the ability to apply them in practice. Candidates both for the M.A. and for the Ph.D. are required to take Course A, and take the prescribed examination. The Redpath Library is well equipped with printed sources for the periods and subjects mentioned above, and students pursuing research in Canadian History may be required, if occasion arises, to avail themselves of the manuscript resources of the Dominion Archives at Ottawa and the Provincial Archives at Quebec, and of parochial and other records in Montreal and its vicinity.

Candidates for the degree of Master of Arts will take the appropriate seminar or seminars and will also prepare a thesis upon some subject to be selected from within the scope of one of the seminars they are taking; the thesis is regarded as the major test in determining the candidate's fitness for this degree.

The Ph.D. degree will be awarded on a course of study and research extending over three or more years. The first year of study for honours graduates of McGill University in History will consist of the M.A. course as outlined above; for graduates of other Universities, of this course or its equivalent. The second and third years shall consist of:—

(a) Resident study and research at McGill University under the general supervision of the Department, and directed in the appropriate seminar or seminars, the work to bear on the thesis

subject, and to include the preparation of the thesis, which must represent a genuine contribution to historical scholarship.

and (b) Resident study and research elsewhere for one of these years, or in the case of McGill graduates, if desirable, for both of these years, at an approved University or repository of archives in continuance of the work upon the thesis subject already selected. In all such cases the approval of the Faculty is required.

The preliminary Ph.D. examination requirements (discussed in the Announcement, in section 5 of the regulations for the degree of Doctor of Philosophy), will be replaced by a report from the Department of History on the general work and ability of each candidate.

Candidates are advised to satisfy the language requirements as early as possible in their course; they should consult the Department as to the selection of the two foreign languages in which they propose to be examined, as these must be chosen for their bearing upon the candidate's special field and special subject of research.

After the thesis has been approved, the candidate will take the usual oral examination upon his special field of research.

DEPARTMENT OF HORTICULTURE

(Macdonald College)

Professor.....
Assistant Professor.....H. R. MURRAY
Lecturer.....R. J. HILTON

Adequate laboratory and library facilities are available for the courses listed below and for research:

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. POMOLOGY.
Lectures and colloquium, three hours per week.
Laboratory, three hours per week.

B. VEGETABLE CROPS.
Lectures and colloquium, three hours per week.
Laboratory, three hours per week.

C. EXPERIMENTATION. (See Course A.—Department of Agronomy).

D. PLANT PHYSIOLOGY. (See Course B.—Department of Botany).

E. ADVANCED GENETICS AND CYTOLOGY. (See Course B.—Department of Genetics).

Requirements for the Degree of Master of Science

1. A candidate must select either Course A or Course B, and Course C, together with at least one of the following: Course D, Course E, or any other course in a cognate subject approved by the Faculty.
1. The research problem must be approved by the Departments of Horticulture and Botany.
3. The candidate must spend one summer in the Department before or during the course, or have its equivalent at some other approved institution.

DEPARTMENT OF MATHEMATICS

Professors.....Charles T. Sullivan, Neil Bruce MacLean, Albert H. S. Gillson†, W. L. G. Williams
Associate Professor.....Herbert Tate
Assistant Professor.....Gordon Pall*

Courses for the Master's Degree

**A. Introduction to the Theory of Functions of a Real Variable.
Three hours.....Professor Williams.

**B. Introduction to the Theory of Functions of a Complex Variable.
Three hours.....Professor Sullivan.

C. Theory of Numbers.
Two hours.

D. Methods of Mathematical Physics.
Two hours.

E. Differential Geometry.
Two hours.....Professor Sullivan.

F. Differential Equations and Advanced Calculus.
Two hours.....Professor MacLean.

**Open also to undergraduates of the Fourth Year in the Honour course.
†On leave for war service.
*On leave of absence.

G. Theory of Generalized Relativity or Wave Mechanics. Two hours.

H. Theory of Algebraic Plane Curves.
Two hours.....Professor Sullivan.

I. Calculus of Variations.....Professor MacLean.

J. Projective Geometry.....Professor Tate.

K. Matrices, Substitutions, and Groups.
Two hours.....Professor Williams.

Courses A, B, D, F are given annually. An additional one of the courses listed above will be given, if a sufficient number of qualified students present themselves.

Students taking a minor in Mathematics for the M.Eng. degree must have as preliminary training the Mathematics required of undergraduates in Engineering, with an additional more advanced course in Mathematics.

Students taking a minor in Mathematics for the degree of M.A. or M.Sc. must present courses in Mathematics equivalent to those required in the first three years of the Honours course in Mathematics and Physics, together with one additional course approved by the Department.

For a minor in Mathematics for the Ph.D. degree the student must have the equivalent of the Mathematics required in the Honours course in Mathematics and Physics, and an additional graduate course in Mathematics.

The final examination in Mathematics as a minor for the Ph.D. degree includes two papers; one on the graduate course, and a general paper on the facts and principles of the more elementary phases of the Honours courses in Mathematics and Physics.

DEPARTMENT OF MECHANICAL ENGINEERING

Professors.....{Charles M. McKergow
Arthur R. Roberts
Assistant Professor.....James A. Coote

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Master's Degree

A. Engineering Thermodynamics. Prerequisites, *Courses 228, 229 and 251.
Three hours colloquia.....Professor McKergow.

These are the numbers of courses given in the Faculty of Engineering.

B. Machine Design. Prerequisites, *Courses 225 and 242.
Three hours colloquia.....Professor Roberts.

C. Industrial Engineering. Prerequisites, *Courses 253, 254, 258 or their equivalent.
Two hours lectures and two hours colloquia.....Professor Coote.

These are the numbers of courses given in the Faculty of Engineering.

DEPARTMENT OF MINING AND METALLURGICAL ENGINEERING

Professors.....{Wilbert G. McBride, John W. Bell, J. U. MacEwan

Associate Professors...{Gordon St. George Sproule, O. N. Brown

Adequate laboratory and library facilities are available for the courses listed below and for research.

MINING ENGINEERING

Courses for the Master's Degree

*A. Mining Engineering. Courses 291 and 297 in the Faculty of Engineering (see Announcement of that Faculty).
Professors McBride and Brown.

B. Organization and Management of Mines.
Two lectures per week for one term.....Professor McBride.

C. The Settling of Finely Divided Minerals in Water.
Two lectures and one laboratory period for one term.
Professor Bell.

D. Classification Laboratory. Students who wish to supplement Course C will be given one or two laboratory periods per week for one term.....Professor Bell.

E. Filtration in Mineral Dressing and Cyanidation.
One lecture and one laboratory period per week for one term.
Professor Bell.

F. Filtration Laboratory. Students who wish to supplement Course E are given one or two laboratory periods per week for one term.....Professor Bell.

*Undergraduate course open to graduate students who have not already taken it as undergraduates.

G. The Cyanidation of Gold and Silver Ores.
One lecture per week for one term.....Professor Bell.

H. Cyanidation Laboratory. Students who wish to supplement Course G are given one or two laboratory periods per week for one term.....Professor Bell.

I. The Theory and Practice of Flotation.
Two lectures per week for one term.....Professor Bell.

J. Flotation Laboratory. Students who wish to supplement Course I are given one or two laboratory periods per week for one term.....Professor Bell.

K. Fine Grinding of Ores. Two lectures per week for one term.
Professors McBride and Bell.

L. Grinding Laboratory. Students who wish to supplement Course K are given one or two laboratory periods per week for one term.....Professors McBride, Bell and Brown.

M. Mine Ventilation. Two lectures per week...Professor Brown.

N. Mine Mechanization. Reading course.....Professor Brown.

Permission is given for two or more graduate students to work together on the physical part of an investigation, when the nature of the problem and the facilities in the laboratory make it desirable to do so.

No collusion in working up of results or in writing of the thesis is allowed.

METALLURGICAL ENGINEERING

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Master's Degree

A. General Advanced Metallurgy. Directed reading supplemented by two hours per week of colloquium and three hours per week of laboratory work.....Professors Sproule and MacEwan.

This may include a special study of one or more selected metals or of some special branch of Metallurgy such as Electro-metallurgy, Pyro-metallurgy, Metallography, etc.

The following undergraduate subjects are offered to students who did not take them in their undergraduate course:—

B. Advanced Metallurgy. Fourth Year Engineering, No. 272. Four hours lectures, second term.

C. Electro-Metallurgy. Fourth Year Engineering, No. 275. Three hours lectures, first term.

D. Metallurgical Problems and Design. Course 278 in the Faculty of Engineering (See announcement of that Faculty).

E. Metallography and Laboratory. Fourth Year Engineering, Nos. 280 and 281.

One hour lecture and one laboratory period in first term.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

40/41

Professor ..... Wilder Penfield

Associate Professor ..... William Cone*
(in charge of Graduate Studies)

Associate Professor ..... Colin Russel*

Lecturers ..... J. Norman Petersen, Arthur Elvidge, Donald McEachern, A. E. Childe*, T. C. Erickson

Courses for the Degrees of Master of Science and Doctor of Philosophy

A. Colloquium, 1 hour, Fridays 5 P.M.

Neuropathology ..... Professors Cone and Penfield.

B. Lecture, 1 hour, Tuesdays 5 P.M.

Fundamental Introduction to Neurology including Neuroanatomy, Neurophysiology, Biological Chemistry and Roentgenology ..... Drs. Petersen, Elvidge, McEachern and Childe.

C. Seminar in Neurology, 2 hours, Wednesdays 5 P.M.

2 Hours ..... Professors Penfield, Russel and Cone.

D. Seminar in Neurosurgery, 1 hour, Tuesdays 3 P.M.

1 hour ..... Professor Penfield

For the degree of Master of Science a candidate must satisfactorily complete three of the courses, listed as A, B, C and D above. He may substitute for one of these a course of equal rank in another Department of the Faculty of Graduate Studies and Research with the approval of the Chairman of the Department. The remainder of his time is to be devoted to experimental research, the accomplishment of which, as embodied in his thesis, will be the main consideration in recommending him for this degree.

*On military service.

For the degree of Doctor of Philosophy the above course requirements are made in each of the first two years of work. Other requirements are outlined under the general statement and regulations of the Faculty of Graduate Studies and Research.

In addition to the above formal courses the Department provides opportunity for advanced clinical study and laboratory research to properly qualified graduate students. The work of this Department is carried out chiefly in the Montreal Neurological Institute.

DEPARTMENT OF PARASITOLOGY

(Macdonald College)

Professor.....Thomas W. M. Cameron

Lecturers.....I. W. Parnell*, W. E. Swales, H. B. Collier

Adequate laboratory and library facilities are available at the Institute of Parasitology for the courses listed below and for research.

Courses for the Degree of Master of Science

A sound knowledge of general Zoology and of elementary Parasitology are pre-requisites.

A, B, and C comprise the main courses and further cognate courses from group E may be chosen, depending on the research problem selected and the candidate's previous training.

Courses for the Degree of Doctor of Philosophy

Candidates should have a degree in which Zoology is an important subject; when the special subject for research is an economic one, qualifications in Human or Veterinary Medicine or Agriculture are desirable; if the special branch of research is in Non-Economic Animals, a degree with honours in Zoology is desirable. A cognate subject from group E may be selected, but the examination in this should be completed by the end of the second year of study.

A. A Systematic Study of the Animal Parasites of Man, Domestic and Economic Animals.
Three hours.....Professor Cameron.

B. Practical Parasitology.
Four hours.....Professor Cameron and lecturers.

*On military service.

C. Field Work: Parasitological surveys, Collections in the field. Methods of control.

D. Medical and Veterinary Entomology. (See Department of Entomology, course D).

Two lectures, three laboratory hours per week, for one term.
Professor DuPorte.

E. Cognate subjects relative to the subject of research, selected from Biochemistry, Pathology, Pharmacology, Physiology, Entomology, etc., as may be arranged.

PATHOLOGY

This department will not offer any formal courses for graduate students this year.

DEPARTMENT OF PHARMACOLOGY

Professor.....Raymond L. Stehle
Assistant Professor.....K. I. Melville

Adequate laboratory and library facilities are available for the courses listed below and for research.

Candidates for higher degrees must present evidence of suitable preparation in Chemistry and Physiology and must have completed the course in Pharmacology as given to medical students.

Courses for the Degree of Master of Science

A. Advanced Pharmacology.

B. Colloquium.

One hour weekly.

Courses for the Degree of Doctor of Philosophy

Special arrangements can be made for anyone desiring to proceed to a doctorate.

DEPARTMENT OF PHILOSOPHY

Professor . . . . . R. D. MACLENNAN
Visiting Professor . . . . . RICHARD KRONER
Assistant Professor . . . . . J. S. FULTON
Lecturer . . . . . C. CURRIE

COURSES FOR THE DEGREE OF MASTER OF ARTS

*A. SOCIAL AND POLITICAL PHILOSOPHY.

*B. FUNDAMENTAL PROBLEMS OF PHILOSOPHY.

*C. READINGS IN THE CLASSICS OF PHILOSOPHY, ANCIENT AND MODERN.

*D. SEMINAR ON CONTEMPORARY PHILOSOPHY. (Subject for 1940-41). Contemporary Ethics.

E. Seminar courses will be offered on the special fields of Philosophy in which candidates are studying for their theses.

DEPARTMENT OF PHYSICS

Professors . . . . . A. NORMAN SHAW, DAVID A. KEYS, J. STUART FOSTER
Associate Professors . . . HERSCHELL E. REILLEY, W. H. WATSON
Assistant Professor . . . . . D. K. FROMAN
Lecturers . . . . . H. G. I. WATSON, F. R. TERROUX, ...

Adequate laboratory and library facilities are available for the courses listed below and for research in any of the main branches of physics. Equipment for investigations in spectroscopy, electrical measurements, molecular physics and geophysics has been specially developed. To provide an opportunity for research in nuclear physics and its applications, the construction of a new radiation laboratory and a cyclotron has been approved. (This project has been postponed, temporarily, on account of the war.)

With the permission of the Chairman of the Department, graduate students in Physics may arrange to take some of their required courses and to undertake research at Macdonald College, the remainder of their courses being taken in Montreal.

*These courses are also open to undergraduates.

Courses for the Degrees of Master, and Doctor of Philosophy

*A. Electrical Measurements. (Arts and Science, 6A.)
Tu., at 2, Wed. at 2, first term only; Laboratory, Tu. 3-5, Wed. 3-5, both terms.....Professor W. H. Watson and Dr. H. G. I. Watson.

Reference books:—Laws' Electrical Measurements (McGraw-Hill); Pidduck's Treatise on Electricity (C.U.P.); Hague's Alternating Current Bridge Methods (Pitman, London); Reich's Applications of Electron Tubes (McGraw-Hill).

*B. Light. (Arts and Science, 6B.) (Replaced by F in alternate sessions.†)
Sat. at 10; tutorial problem hour, Tues. at 11; laboratory, Th. 2-5. Professors Keys and Froman.

Text-book:—Houston's Light (Longmans).

Reference:—Robertson's Physical Optics (Van Nostrand); Wood's Physical Optics (Macmillan); Drude's Physical Optics (Longmans).

*C. Electromagnetic Theory. (Arts and Science, 7A.)
Tues. at 10.....Professor Froman.

Text-book:—Pierce's Electric Oscillations and Electric Waves (McGraw-Hill).

Reference:—J. J. Thomson's Electricity and Magnetism (C.U.P.).

*D. Mathematical Physics. (Arts and Science, 7B.)
This course includes an introduction to quantum theory and nuclear physics.
Mon., Thurs. at 10.....Professor Foster.

Text-books:—Houston's Introduction to Mathematical Physics (Longmans); Page's Introduction to Theoretical Physics (Van Nostrand).

*E. Molecular Physics. (Arts and Science, 8A.)
Wed., Fri., at 10; laboratory, Mon. (or Tu.), 2-5. Professors Shaw and W. H. Watson.

Text-book:—Crowther's Ions, Electrons and Ionizing Radiations. (Arnold).

Reference:—An Outline of Atomic Physics by the Physics Staff of the University of Pittsburgh (Wiley), Richtmeyer's Introduction to Modern Physics (McGraw-Hill); Strong's Procedures in Experimental Physics (Prentice-Hall).

---

*See note after * at foot of page 790.

†Courses B and F will be given in alternate sessions, as follows:—B in '40-'41 and F in '41-'42.

*F. THEORY OF HEAT. (Arts and Science, 8B.) (Replaced by B in alternate sessions.†)

Mon., at 9; lab. Th. 2-5‡; tutorial problem hour, Sat. at 10.
Professors Froman and Shaw.

Text-book:—Roberts' Heat and Thermodynamics (Blackie).

*G. RADIOACTIVITY. (Arts and Science 9.)

Tues. at 9 and Thurs. at 11, second term; laboratory, Fri., second term, 2-5.....Dr. Terroux.

Reference:—Rutherford, Chadwick and Ellis, Radiations from Radioactive Substances (C.U.P.).

*H. APPLICATIONS OF VECTOR ANALYSIS. (Arts and Science 10.)§

Tues., at 10.....Professor W. H. Watson.

I. ADVANCED STATICS, DYNAMICS, HYDRODYNAMICS AND SOUND.

Tues., at 11, and Wed., at 10.....Professor W. H. Watson.

Text-books:—Lamb's Higher Mechanics (C.U.P.).

References:—Lamb's Dynamical Theory of Sound (Arnold); Bateman, Dryden and Murnaghan's Hydrodynamics (N.R.C., U.S.A.); Goldstein's Fluid Dynamics (Clarendon).

J. KINETIC THEORY OF MATTER.

Wed. at 11.....Professor Shaw.

Reference:—Loeb's Kinetic Theory of Gases (McGraw-Hill); Jean's Dynamical Theory of Gases (C.U.P.).

K. QUANTUM THEORY AND SPECTRUM ANALYSIS.

Wed. at 12.....Professor Foster.

Text-books:—Birtwistle's Quantum Theory of the Atom (C.U.P.); Ruark and Urey's Atoms, Molecules and Quanta (McGraw-Hill).

L. RELATIVITY.§

Sat. at 12.....Professor Gillson.

---

*These courses are undergraduate honours courses prerequisite to graduate work in Physics; but they are open to graduate students (1) choosing Physics as a Minor or Cognate subject, or (2) completing their entrance qualifications for graduate work in Physics.

§Not offered in '40-'41.

†Courses B and F will be given in alternate sessions, as follows:—B in '40-'41 and F in '41-'42.

‡The Department of Mining and Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.

M. Advanced Electricity and Magnetism.
Prerequisite—Course C.

Text-book:—Harnwell's Principles of Electricity and Electromagnetism (McGraw-Hill).

References:—Jeans' or Livens' Electricity and Magnetism (C.U.P.); Smythe's Static and Dynamic Electricity (McGraw-Hill); Terman's Radio Engineering (McGraw-Hill).

Tues. and Fri., at 10.....Professor W. H. Watson and Dr. H. G. I. Watson.

N. Laboratory Practice and Physical Manipulation.§
Mr. H. T. Pye and Mr. S. Amesse.

O. Thermodynamics.
(Alternate sessions, '41-'42 etc.).

Mon. at 10.....Professor Shaw.

Text-books: — Birtwistle's Thermodynamics, (C.U.P.), and Roberts' Heat and Thermodynamics (Blackie).

P. Electron Theory.

Thurs. at 10.....Professor Keys.

References:—Richardson's Electron Theory (C.U.P.), Lorentz' Theory of Electrons (Stechert); E. Bruche and O. Scherzer, Electronen Optik, (J. Springer).

Q. Heaviside's Operational Calculus.§
One hour.

**R. Astrophysics.§
Three hours per week.

References:—Russell's Astronomy, vol. I and II (Ginn); Dingle's Astrophysics (Collins); Stratton's Astronomical Physics (Methuen); Eddington, Internal Constitution of the Stars (C.U.P.).

S. Mathematical Physics, Wave Mechanics, etc.
This class is divided into two sections, S1 and S2, elementary and advanced. S2 may be taken as a continuation of S1. Usually these courses will alternate in successive sessions.
Two hours.

(Dr. W. H. Watson will lecture during Professor Gillson's absence on leave.)

**Students who have received instruction in Astronomy may apply to proceed to the Dominion Observatory at Ottawa for work in summer.
§Not offered in '40-'41.

‡T. (a) Logic of Physics. (Ten lectures).
(b) Electrons in Solids. (Fifteen lectures).
The thermionic, photoelectric and optical properties of metals; photo-conductance in insulators; discussion of recent theories.
Tu. and Fri. at 12 (first term only).
Professor W. H. Watson.

‡U. Statistical Mechanics.
Tu. and Fri. at 12 (first term only).
Professor W. H. Watson.
References:—Rice's Statistical Mechanics; Fowler's Statistical Mechanics.

V. Nuclear Physics Seminar.
Two hours.....Professor Foster.

W. Applied Geophysics. (Arts and Science 12, Engineering 320).
Mon. and Wed. at 9, first term.....Professor Keys.
Text-book:—Applied Geophysics, Eve & Keys, 2nd ed. (C.U.P.).
Reference:—Elements of Geophysics, Ambronn, trans. by Cobb, (McGraw-Hill).

A review of the general requirements and selected topics for the preliminary examination for the degree of Ph.D. is given, in addition to the above courses, in a weekly seminar under the guidance of Professors Shaw, Keys and W. H. Watson.

A suitable selection of the above courses may be made when Physics is taken as a minor or cognate subject. A general examination on elementary physics is also given when Physics is a minor subject.

Courses for Master and first year Ph.D.—Courses K, M, V, Mathematics D, and one other course. Research. (Thesis required for Master's degrees).

Second Year.—Research and selected courses from the above. "Preliminary" examinations.

Third Year.—Research, thesis, oral, and one optional course.

Attendance at meetings of the Physical Society, Journal Club, and Colloquium, together with the presentation of papers, form an important element in the training of M.Sc. and Ph.D. students.

---

‡Courses T and U offered in alternate session, T in '40-'41.

DEPARTMENT OF PHYSICS
(Macdonald College)

Associate Professor.....W. Rowles
Lecturer.....W. F. Oliver

The courses below may form part of the required courses for graduate students in Physics (see pages 788-792), or may be taken by students in other departments as a minor or cognate subject (see page 742).

Courses Available to Graduate Students

A. Advanced Biophysics.

2 hours, 2nd term.....Professor Rowles.
(Goven in 1940-41).

B. Theory of Probability.

2 hours, 2nd term.....Dr. Oliver.
(Given in 1941-42).

DEPARTMENT OF PHYSIOLOGY

40/41

Professor.....B. P. Babkin
Assistant Professor.....N. Giblin
Lecturers.....S. Dworkin, D. A. Ross, S. A. Komarov

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degree of Master of Science

A. Applied Physiology....Professors Babkin and Giblin and Drs. Dworkin, Ross and Komarov.

B. Lectures on Selected Advanced Topics....Professor Giblin.

C. Lectures on Structure and Function.

D. Advanced Laboratory.

E. Physiological Colloquium.

F. Lectures on Conditioned Reflexes.....Dr. Dworkin.

G. Lectures on Secretory Activity of the Digestive Glands. Professor Babkin.

Requirements for the Degree of Doctor of Philosophy

Courses for a second year, toward the degree of Doctor of Philosophy, may be selected from those set forth above which have not already been taken in the first year of graduate study.

‡T. (a) Logic of Physics. (Ten lectures).
(b) Electrons in Solids. (Fifteen lectures).
The thermionic, photoelectric and optical properties of metals; photo-conductance in insulators; discussion of recent theories.
Tu. and Fri. at 12 (first term only).
Professor W. H. Watson.

‡U. Statistical Mechanics.
Tu. and Fri. at 12 (first term only).
Professor W. H. Watson.
References:—Rice's Statistical Mechanics; Fowler's Statistical Mechanics.

V. Nuclear Physics Seminar.
Two hours.....Professor Foster.

W. Applied Geophysics. (Arts and Science 12, Engineering 320).
Mon. and Wed. at 9, first term.....Professor Keys.
Text-book:—Applied Geophysics, Eve & Keys, 2nd ed. (C.U.P.).
Reference:—Elements of Geophysics, Ambronn, trans. by Cobb, (McGraw-Hill).

A review of the general requirements and selected topics for the preliminary examination for the degree of Ph.D. is given, in addition to the above courses, in a weekly seminar under the guidance of Professors Shaw, Keys and W. H. Watson.

A suitable selection of the above courses may be made when Physics is taken as a minor or cognate subject. A general examination on elementary physics is also given when Physics is a minor subject.

Courses for Master and first year Ph.D.—Courses K, M, V, Mathematics D, and one other course. Research. (Thesis required for Master's degrees).

Second Year.—Research and selected courses from the above. "Preliminary" examinations.

Third Year.—Research, thesis, oral, and one optional course.

Attendance at meetings of the Physical Society, Journal Club, and Colloquium, together with the presentation of papers, form an important element in the training of M.Sc. and Ph.D. students.

---

‡Courses T and U offered in alternate session, T in '40-'41.

DEPARTMENT OF PHYSICS
(Macdonald College)

Associate Professor.....W. Rowles
Lecturer.....W. F. Oliver

The courses below may form part of the required courses for graduate students in Physics (see pages 788-792), or may be taken by students in other departments as a minor or cognate subject (see page 742).

Courses Available to Graduate Students

A. Advanced Biophysics.

2 hours, 2nd term.....Professor Rowles.
(Goven in 1940-41).

B. Theory of Probability.

2 hours, 2nd term.....Dr. Oliver.
(Given in 1941-42).

DEPARTMENT OF PHYSIOLOGY

40/41

Professor.....B. P. Babkin
Assistant Professor.....N. Giblin
Lecturers.....S. Dworkin, D. A. Ross, S. A. Komarov

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degree of Master of Science

A. Applied Physiology....Professors Babkin and Giblin and Drs. Dworkin, Ross and Komarov.

B. Lectures on Selected Advanced Topics....Professor Giblin.

C. Lectures on Structure and Function.

D. Advanced Laboratory.

E. Physiological Colloquium.

F. Lectures on Conditioned Reflexes.....Dr. Dworkin.

G. Lectures on Secretory Activity of the Digestive Glands. Professor Babkin.

Requirements for the Degree of Doctor of Philosophy

Courses for a second year, toward the degree of Doctor of Philosophy, may be selected from those set forth above which have not already been taken in the first year of graduate study.

DEPARTMENT OF PLANT PATHOLOGY

(Macdonald College)

Associate Professor.....J. G. COULSON
Lecturer.....I. H. CROWELL

Adequate laboratory and library facilities are available for the courses listed below and for research.

Candidates must have completed satisfactory undergraduate courses in Plant Morphology, Physiology, Taxonomy, Histology and Cytology. Specialists in Plant Pathology should possess a general knowledge of the fundamental practices in Agronomy and Horticulture.

Courses for the Degree of Master of Science and Doctor of Philosophy

A. HISTORY OF PLANT PATHOLOGY. One lecture per week for one term. Extra reading required.
Text-book:—History of Phytopathology—Whetzel (Saunder' Co.).

B. ADVANCED MYCOLOGY. Two lectures and two laboratory period per week for two terms. A general course in Systematic My cology is a prerequisite. Dr. Crowell
Text-books:—Comparative Morphology of the Fungi—Gaumann and Dodge (McGraw-Hill), Plant Disease Fungi—Steven (Macmillan), A Text-book of Mycology—Bessey (Blakiston' Son).

C. ADVANCED PLANT PATHOLOGY.
Two lectures and two laboratory periods per week for two terms Professor Coulson and Dr. Crowel
Text-book:—Manual of Plant Diseases—Heald (McGraw-Hill).

D. PRINCIPLES OF PLANT PATHOLOGY. Two lectures and thre laboratory periods per week for two hours....Professor Coulson

E. PLANT PHYSIOLOGY (See Course B—Department of Botany).

F. GENETICS AND CYTOLOGY (See Course B—Department o Genetics).

G. SEMINAR.—A course entailing reading, discussion, appreciatio and criticism of research articles, monographs, etc.
One period per week.....Professor Coulson and staf

Candidates for the Degree of M.Sc. in Plant Pathology are require to take at least courses G, and two from B, C, and D.

The Ph.D. degree in Plant Pathology is offered in association wit the Department of Botany. Plant Pathology is to be regarded as th major subject and the courses in the Department of Botany, listed abov as cognate lines of study. The research and thesis must be in the field o Plant Pathology.

DEPARTMENT OF PSYCHOLOGY

Professor.....WILLIAM D. TAIT
Associate Professor.....CHESTER E. KELLOGG
Assistant Professor.....N. W. MORTON

COURSES FOR MASTER'S AND PH.D. DEGREES

A. SEMINAR IN HISTORY OF PSYCHOLOGY.....Professor Kellogg.

B. THE PSYCHOLOGY OF WILLIAM JAMES.....Professor Tait.

C. CONTEMPORARY PSYCHOLOGY. A group course by the members of the Department.

D. SEMINAR IN PSYCHOLOGY OF LANGUAGE.....Professor Kellogg.

E. SEMINAR IN ABNORMAL PSYCHOLOGY.

F. ADVANCED STATISTICAL METHODS.....Professor Kellogg.
Prerequisite:—Course 17.

G. THEORY AND TECHNIQUE OF MENTAL TESTS.
Prerequisite:—Course 17.
Professors Kellogg and Morton.

H. EXPERIMENTAL EDUCATION.....Professor Tait.

I. ADVANCED PSYCHOTECHNICS.....Professor Morton.

J. RESEARCH. Under the direction of members of the Department.

K. EXPERIMENTAL TECHNIQUE.....Professor Morton.

For other courses open to graduate students see Announcement of the Faculty of Arts and Science.

SPECIAL REQUIREMENTS FOR PH.D.

1. Candidates are required to possess an adequate knowledge of the main principles of Physics, Chemistry and Physiology, in so far as these subjects are cognate to Psychology.

2. All students are required to have a knowledge of Advanced Statistical methods such as Correlation, Partial Correlation, Regression Equations and methods of testing the reliability of psychological measurements.

3. A certain amount of shopwork is required, enough to show that the candidate is capable of designing and constructing simple apparatus.

4. The preliminary examination for the Ph.D. includes the History of Philosophy, Logic, Principles of Psychology, Experimental and Physiological Psychology, Statistical Methods and Contemporary Psychology.

DEPARTMENT OF SOCIOLOGY

Professor.....Carl Addington Dawson
Assistant Professor.....Forrest La Violette

The Department especially encourages research in Canadian subjects, such as: the peculiarities of Canadian culture and social organization; the development of regional factors in Canadian affairs; frontier communities; the Canadian city; immigration and race relations; population and related problems; social institutions; crime, delinquency, and other forms of social disorganizations.

Courses for the Degree of Master of Arts

*A. The Community. Third and Fourth Years.
(Given in 1941-42).....Professor Dawson.

*B. Immigration and Population Growth; the Assimilation of Alien Groups; the Race Factor in Canada.
Third and Fourth Years.....Professor Dawson.
Second term; Tu., Thurs., Sat., at 9.

*C. Social Disorganization. Third and Fourth Years.
(Given in 1941-42).....Professor La Violette.

*D. Social Origins.
First term; Mon., Wed., Fri., at 9.....Professor La Violette.

*.E Social Movements.
Second term; Mon., Wed., Fri., at 9.....Professor La Violette.

*F. The Family. Third and Fourth Years.
First term; Tu., Thurs., Sat., at 9.....Professor Dawson.

*G. The Sociology of the Child. Third and Fourth Years.
(Given in 1941-42).....Professor La Violette.

H. Social Instututions.
(Given in 1941-42).....Professor LaViolette.

I. Social Attitudes and Personality.
Hours to be arranged.....Professor LaViolette.

J. Graduate Seminar.
Hours to be arranged.....Professor Dawson and LaViolette.

Written examination in each course of study and a general oral examination are required of each candidate.

---

*Note.—The starred courses are also undergraduate honours courses and are described in the catalogue of the Faculty of Arts and Science. Additional work will be required of graduate students who take such courses.

DEPARTMENT OF THEOLOGICAL STUDIES

This Department may be consulted should students wish to take a Theological course as a cognate subject.

DEPARTMENT OF ZOOLOGY

Associate Professor.....N. J. BERRILL
Assistant Professor.....V. C. WYNNE-EDWARDS
Lecturer.....KATHLEEN G. TERROUX
Sessional Lecturer.....RONALD GRANT
Professor of Parasitology and Director of the Institute of Parasitology at Macdonald College, Special Lecturer
T. W. M. CAMERON

Adequate laboratory and library facilities are available for the courses listed below and for research.

A. COMPARATIVE EMBRYOLOGY AND HISTOLOGY.
Professor Berrill.

B. EXPERIMENTAL ZOOLOGY.
Second Term.....Dr. Terroux.

C. ENTOMOLOGY.
First term.....Professor DuPorte.

D. PARASITOLOGY.
Second term.....Professor Cameron.

E. ADVANCED VERTEBRATE ZOOLOGY.
Professor Wynne-Edwards.

F. SEMINAR COURSE.

In addition to thesis work and extensive reading, candidates for the Master's degree must take course G and at least one other course chosen from those listed.

Similarly, candidates for the Doctor's degree must take course G.

Details must be arranged, in advance, with the Chairman of the Department in every case.

LABORATORIES AND LIBRARIES

Adequate laboratories and laboratory equipment are available for undergraduate instruction and for the use of students in the Faculty of Graduate Studies and Research.

All students have free access to the Redpath Library, containing over 300,000 volumes, to the Faculty Library in the Engineering Building, containing about 2,000 titles of particular interest to students of engineering, and to the special libraries of the Departments of Chemistry, Physics, and Geological Sciences.

McGILL UNIVERSITY

MONTREAL

LIBRARY SCHOOL

1940-41

McGILL UNIVERSITY
MONTREAL
LIBRARY SCHOOL
1940-41

McGILL UNIVERSITY

LIBRARY SCHOOL

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, B.Com., M.A., Ph.D., F.R.S.C.

University Librarian and Director of the Library School.....G. R. Lomer, M.A., Ph.D., F.L.A.

Secretary and Bursar.....F. O. Stredder, M.A., Ph.D.
(on leave of absence)

Registrar.....T. H. Matthews, M.A.

Acting Bursar.....William Bentley, C.G.A., A.C.I.S.

A complete list of the teaching staff of the University, including the Library School, is printed as a separate announcement, which may be obtained from the Registrar's Office.

LIBRARY SCHOOL

Plans for a sessional Library School at McGill University were made in the Spring of 1904 by Mr. C. H. Gould, then Librarian, in consultation with Dr. Melvil Dewey, Director of the New York State Library School at Albany. In order to lose no time, a summer course was provided for that year, thus constituting the first library school in Canada. Owing to limited funds, the winter course could not then be provided, and the summer course was repeated in 1905, 1907, 1910-11, 1913-14, 1920-24, 1926, and 1927.

In 1921 the University Librarian again proposed the establishment of a sessional course, and this was approved by Corporation in the same year and by the Governors early in 1922. The realization of these plans was made possible by the co-operation of the Carnegie Corporation with McGill University, and the first winter course under the auspices of a Canadian university opened in October, 1927. It was then accredited as a Junior Undergraduate Library School by the Board of Education for Librarianship of the American Library Association. In 1930 the Corporation of McGill University approved the raising of the entrance requirements, and the Library School became a graduate School, with the power of conferring the degree of Bachelor of Library Science, and was accredited on this new basis by the Board of Education. In addition to fundamental courses in library methods and administration, the School offers advan-

tages and opportunities in training for special libraries and for school and college libraries, as it is situated in a large city which provides examples of libraries of all types and is part of a university with a recognized high standard of scholarship.

EQUIPMENT

The Library School occupies quarters conveniently situated in the Redpath Library and consisting of a lecture room (equipped with lantern and refractoscope) a staff office, a reading room containing professional books and periodicals, and a study room with individual desks and typewriters for students.

DEGREE OF BACHELOR OF LIBRARY SCIENCE

Candidates who successfully complete all the required work of the School are entitled to receive the degree of Bachelor of Library Science (B.L.S.) at the May Convocation and to wear the regulation black Bachelor's gown and a Bachelor's hood of black lined with burnt orange silk and trimmed with white rabbit fur. Academic costume for graduation may be rented from the Registrar's office.

REQUIREMENTS FOR ADMISSION

1. Applicants for admission to the course leading to the degree of Bachelor of Library Science must have a Bachelor's degree from a recognized college or university and must present an official transcript of their college record.

2. Experience has shown that applicants over thirty-five years of age should not be encouraged to enter the School, as they usually find intensive study difficult and are at a disadvantage in applying for positions.

3. As no one with serious physical defects, personality difficulties, or ill health can readily secure a position in library service, such persons should not ask admission to the School.

4. Applicants for admission must fill in the School Application form and attach thereto a recent photograph and an advance fee of $10.00 which will be credited to the student's fee account. Should the application be rejected, this advanced payment will be refunded. No refund will be made in the case of a student who withdraws after the application has been accepted.

5. Students are advised before entering to acquire proficiency in the operation of a typewriter, since the greater part of the work done must be in typewritten form.

6. The class is limited to twenty students each of whom receives individual attention.

PLACEMENTS

While the School does not guarantee positions to graduates and will not recommend any with less than a "B" average, it makes an effort to help its graduates find suitable positions. Complete records are kept in the Library School files and transcripts and letters of reference are sent to prospective employers on request.

MEDICAL EXAMINATION

1. All students entering the University are required by the Provincial Board of Health to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years, failing which they shall immediately be vaccinated in a manner satisfactory to the Medical Examiner.

2. Students must also present a Certificate of Health which may be obtained from the School and which should be filled in and signed by a physician.

REGISTRATION AND ATTENDANCE

REGISTRATION:

1. Students in the Library School are required to present themselves at the office of the Library School on Friday, September 20, or Saturday, September 21, preceding the commencement of lectures, in order to furnish the information necessary for the University records.

ATTENDANCE:

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.

2. Excuses for absence on account of illness or domestic affliction are dealt with only by the Director of the School. Medical certificates covering absences must be presented by the student immediately after his return.

3. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to take the regular examination in that course; and those whose unexcused absences have exceeded one-fourth of the total number of lectures must repeat the work in that course for credit.

FEES AND EXPENSES

1. FEES:

a. Regular students:

Fees are due and payable to the Bursar at his office on September 21, but they will also be received before that date. After September 23 or February 1, (as the case may be) an additional fee of $2.00 is charged.

Fee for the Library Course (including the use of the Library, and Diploma)	$165.00
By instalments:	
First instalment	85.00
Second instalment	85.00
Fee for each supplemental examination	5.00

b. Partial students:

Fee for partial students, per point	15.00
Library fee for partial students taking less than two points, unless already registered at McGill	4.00
Certificate for partial students	1.00

Immediately after September 23 (or February 1, in the case of students who pay by instalments), the Bursar will send to the Director of the School a list of registered students who have not paid their fees. Such students cannot be re-admitted to classes except on presentation of a receipt signed by the Bursar certifying the payment of the necessary fees.

2. Student Activities:

A fee of $3.00 is required of all students for Athletics and use of Athletic Grounds, and $1.50 for the *McGill Daily*.

3. Caution Money:

Every student is required to deposit with the Bursar the sum of $20.00 as Caution Money to cover damage done to furniture, books, apparatus, etc. This amount, less deduction (if any), will be refunded at the end of the session, *on presentation of receipt.*

4. Textbooks and Materials:

Students should allow approximately $35.00 for textbooks, blank forms, cataloguing cards, and other library supplies needed during the session. These may be purchased at cost from the Secretary of the School. Portable typewriters may be rented, for use in the School only, at the rate of $1.00 per month.

5. Traveling Expenses:

A week's visit, under the direction of members of the Faculty, to Libraries in New York and adjacent cities is a required part of the Library Course, and students should allow a minimum of $85.00 for this purpose.

6. Board and Residence:

Information about approved boarding and lodging houses may be obtained on application to the Secretary of the School.

7. CLUBS and SOCIETIES:

Students are encouraged to take advantage of the privileges offered to members of the Quebec Library Association, The Special Libraries Association, and the American Library Association. Women students of the School are eligible for membership in the University Women's Club, 3492 Peel Street, in the immediate neighbourhood of the School.

SCHOLARSHIP

The Ethelwyn M. Crossley Scholarship Fund is available for women students. Details may be obtained on application to the Secretary of the School.

PARTIAL STUDENTS

A limited number of qualified students who are not candidates for the degree may be admitted to individual courses as partial students. Before registration such students must satisfy the Faculty of the School of their ability to follow the courses selected, and they must fulfil all requirements of classroom work and tests prescribed for regular students of these courses. A certificate of attendance may be obtained on application to the Registrar of the University accompanied by the required fee: but no certificates shall be given for attendance at lectures unless the corresponding examinations have been passed.

COURSES FOR TEACHER-LIBRARIANS

Special evening courses for Teacher-Librarians will be provided, if there is sufficient demand, giving instruction in the organization and management of school libraries, the selection and use of books for children, library work with pupils, and co-operation with the teaching staff. Further information may be obtained from the Secretary of the School.

EXTENSION COURSES

Evening extension courses in library subjects, when given, are announced in the bulletin of the Extension Department, which may be obtained in September on application to that Department.

DESCRIPTION OF COURSES

The courses provided by the School are based upon the needs and opportunities presented by the librarian's four-fold relation to: the building in which his library is housed, the books and periodicals in his charge, the readers whom he serves, and the staff with whom he works. In teaching the various subjects of the curriculum, every effort is made to relate them to library work as a whole and to develop a dynamic rather than a mechanical point of view with regard to the present practice and the future possibilities of the profession.

Whenever possible, the past history, the practice of today and the probable future development of library activities are related, and students are encouraged to assume an attitude that is critical and forward-looking rather than one that is merely conventional and retrospective. The work of the School is grouped under the following headings for convenience of instruction: 1. Organization and administration of libraries. 2. The acquisition and care of library materials. 3. The selection and use of books. 4. Elective subjects. 5. Library practice.

I. ORGANIZATION AND ADMINISTRATION OF LIBRARIES

This group of courses is planned to give the future librarian a general idea of the ideals, functions, and successful running of libraries of different types. It is concerned with the place of the library in the community, the duties and opportunities of the librarian, and his relation to the trustees, staff, and readers. These courses form both framework and background for the more detailed instruction in technique and specialized services.

1. ORGANIZATION AND MANAGEMENT—Dr. G. R. Lomer and Miss K. Jenkins.

After an introductory survey of the relation of the library to other educational institutions the student becomes familiar through lectures and required reading with such topics as: the underlying principles of business and service organization; elements of library administration; the appointment, qualifications and duties of trustees; committees, meetings and minute book; the library budget, distribution of funds and accounts; statistics and reports; supplies and stock, inventory and checking stock; the qualifications of assistants, staff appointments and records, personnel management and work schedules; and the ethics of librarianship.

2. LIBRARY BUILDINGS AND EQUIPMENT—Professor P. J. Turner.

In this course the following subjects are discussed: basic principles and fundamentals in library planning; reading of architect's plans; the planning of small public libraries and branch libraries; college and university libraries; special libraries and private collections; furniture and equipment; heating, ventilation, and lighting; some outstanding libraries reviewed.

The lectures are illustrated by lantern slides and specially prepared diagrams. Students are required to work out simple planning problems illustrating topics considered in the course.

3. Extension and Publicity—Dr. G. R. Lomer and Miss V. Ross.

In order to be of the most efficient service the librarian must be familiar with the fundamental problems and the recent progress in library extension, adult education, personal service, reading lists, inter-library loans, traveling libraries, county service and library surveys.

Attention is also directed to the opportunities which the library has to satisfy community needs, and the principles of effective publicity as applied to library advertising are explained. The co-operation of libraries with museums is considered and students are given an opportunity to plan and arrange exhibits in the regular library schedule.

4. Circulation.

The organization of the circulation department is studied including: equipment; registration of borrowers; a comparative study of the different methods of charging books; regulations and fines; supervision of reading room and stack; information; statistics. Practice at the circulation desk of the University Library is given.

5. History of Books and Libraries—Dr. G. R. Lomer.

This course of lectures deals with the development of the arts of record from prehistoric times and provides the student with the cultural and historical background of writing materials, books and libraries. After the early forms of picture writing, the papyri of the Egyptians and the cuneiform records of the Babylonians and Assyrians are considered, some attention is given to the production and care of manuscripts in classical times, followed by a study of the illuminated medieval manuscripts and monastic libraries. The latter part of the course includes the manuscripts of the Far East and the invention of paper and printing in China, the development of printing in Europe, the description of incunabula, modern typography, processes of illustration, and a brief summary of library development in Europe and America.

The course is illustrated throughout by lantern slides and by examples from the Library Museum, and is supplemented by required reading and by visits to Museums in Montreal and New York.

II. ACQUISITION AND CARE OF LIBRARY MATERIALS

The purpose of these courses is to acquaint the future librarian with the principles underlying wise, economical and adequate provision of

books, pamphlets, periodicals, etc., for library use and the best modern technique to be applied in recording them and in making them available for public use.

1. Accessions—Dr. G. R. Lomer.

After considering the principles of library policy underlying accessions, a flexible routine for the receipt and record of gifts is discussed, followed by practice in the use of trade bibliographies, publishers' lists, and second hand catalogues, English, American and foreign, as a basis for problems in ordering. The equipment and administration of this department, including the handling of invoices, fund records, and files, are also discussed. Practice is provided in the complete routine of ordering, in which the student makes out order cards, orders and invoices, and completes the recording and filing involved.

2. Classification and Cataloguing—Miss B. Simon.

1. General. The principles and purpose of classification and cataloguing are studied with a view to their application in libraries of different types and sizes. The Dewey Decimal classification is reviewed and A.L.A. catalog rules are examined in detail, with laboratory practice throughout the course in cataloguing and classification of books and in assigning subject headings.

2. Advanced. The history and theory of classification are covered and a comparative study is made of the Dewey, Library of Congress, Cutter, Brussels, and other classification schemes in modern use.

3. Editorial and Office Practice—Miss B. Simon and Dr. G. R. Lomer.

This course is planned to give the library assistant some knowledge of and practice in the following aspects of library work, in large public or special libraries:

1. Editing. Preparation and editing of copy for the printer and proofreading. Familiarity with modern type-faces and the rules of effective layout is obtained through practical problems.

2. Indexing and abstracting. The demands made upon the modern librarian, particularly in special and departmental libraries, for indexing books and serial material and abstracting scientific and economic periodical articles and books make it necessary for the student to become familiar with the methods involved, and to have some practice in answering requests for material of this type.

3. Filing. The principles of alphabetical, geographical, numerical, subject and classified filing are studied, and applied to the care of such library material as cards, MSS, pictures, lantern slides and fugitive material.

4. Binding—Dr. G. R. Lomer.

The topics considered in this course include the following and are illustrated by samples, lantern slides, and visits to the Bindery and the Library Museum:

Materials, patterns, routine and records for book binding. Hand binding; the processes of sewing, forwarding, and finishing; types of sewing. Machine binding, reinforced library binding, and spiral wire binding. Binding for periodicals and serials (see course on Periodicals and Serials). Pamphlets and fugitive material. The care and "first aid" repairs to books, with demonstration and practice.

III. SELECTION AND USE OF BOOKS

While the students are being taught the processes involved in the care of books and are acquiring a professional background of knowledge and experience, the point of view and needs of the future reader are explained and provided for by a carefully planned study of the subject content of books and their adaptation to practical use in the libraries of various types.

During the first term the following courses are studied separately and from a general point of view. In the second term they are combined and taught together in "special subject units" such as art, history and chemistry. All forms of material are reviewed including books, serial publications, government documents, pamphlet and other appropriate material.

1. Book Selection—Miss V. Ross.

This course deals with methods of selecting books for various types of libraries, communities and readers. Representative books of all classes are examined for their literary value, as well as their physical make-up, and various editions, translations and series are compared.

The student becomes familiar with the printed catalogues and other aids to selection; the character and specialties of publishing houses and book agents; the problems of authorship, copyright and censorship; and important literature of the library profession, including library journals and book reviewing periodicals.

Training is given in book evaluation and annotation; written and oral book reviewing; compiling selected book lists.

2. Reference—Miss V. Ross.

The purpose of the course is to give students a practical and critical knowledge of the basic types of reference materials such as encyclopedias, dictionaries, yearbooks, indexes, followed by the outstanding books in special subjects. Typical reference questions are given to students in order to develop their faculties in the use of these various books, in addition to lectures and to class discussions.

3. Bibliography—Miss V. Ross.

National, trade and subject bibliographies are studied with regard to their use in book selection, ordering, cataloguing and reference work. Methods of arrangement and organization of bibliographical material are considered and the compilation of a selected and annotated bibliography is required.

4. Government Publications—Miss V. Ross.

The object of the course is to familiarize students with the character of British, Canadian and United States government documents in reference and research work, their source and distribution, and their care and use in libraries. Special attention is paid to the understanding and use of the various catalogues and indexes, and the organization of the different departments of government. Some attention is also paid to similar aspects of foreign documents and League of Nations publications.

5. Periodicals and Serials—Miss B. Simon.

A brief sketch of the historical development of the periodical form is given; study is made of the various types of serials published to-day, such as popular magazines, technical journals, house organs, and the publications of societies and institutions.

A systematic survey is made of the problems involved in the selection and ordering of periodicals and serials in English and foreign languages; checking and claiming; circulation, binding and storage; exchange of duplicates and completing of sets.

IV. ELECTIVE SUBJECTS

The course as a whole is based upon the belief that successful specialization depends upon a thorough grounding in fundamental subjects and an adequate conception of the functions and processes of library work in general. The School therefore offers, in addition to its basic courses, opportunity for students to specialize in the second term in subjects that develop individual interests and prepare them for work in specialized fields.

Special Libraries—Miss B. Simon.

This course is designed to present the purpose and point of view of the special library and to discuss the adaptation of general library techniques to its use. Special attention is paid to the organization and administration of research libraries in business and industry, college and university libraries, and the libraries of societies, foundations and similar institutions. Research methods and sources of information peculiar to each field are surveyed and discussed. Practice work in selected special libraries is provided and visits made in Montreal and New York to outstanding types of special libraries.

SCHOOL LIBRARIES AND CHILDREN'S READING—Miss F. Dumaresq, Miss G. McEwen, and Miss D. Putnam.

School library work as covered in this course shows the adaptations necessary in cataloguing and classification, reference work, book selection and general administration to serve the needs of the modern school. Methods of teaching students the use of books and libraries are considered in detail.

Children's literature from the historical point of view is reviewed; modern illustrators and modern authors are discussed. Students have the opportunity of using a large collection of selected children's books owned by the Library School. The lectures are supplemented by problems, story telling, practical work and visits.

V. LIBRARY PRACTICE

As all courses are planned for the development and future guidance of a trained library assistant in a modern library (public, special, college, school, or children's) it is believed that satisfactory results can be obtained only through familiarity with the use of library materials and with the daily work of the practising librarian. To obtain such necessary experience in close relation to daily instruction the following types of practical work are required:

1. LABORATORY WORK.

The problems and laboratory work involved in the technical courses provide the conditions necessary for the practical application of the principles and methods taught.

2. VISITS TO LOCAL LIBRARIES.

In addition to the Redpath Library and the various special and departmental libraries at McGill University, the students have the opportunity of becoming familiar with Westmount Public Library, Mechanics Institute, Civic Library, Divinity Hall Library, Canadian Industries Library, Bell Telephone Company Library, Investment Library of the Sun Life Assurance Company, Library of the Royal Bank of Canada, Montreal Art Association Library, Montreal Children's Library, Montreal High School Library, D'Arcy Magee High School Library, Montreal Catholic School Commission Library, Commercial High School Library.

3. TRIP TO NEW YORK.

A programme of conducted visits to other libraries, including a week's visit to New York and vicinity, is planned as a required part of the course. This aims to give the student an opportunity to observe the practical application of subjects taught.

4. Weekly Practice in Local Libraries.

A half-day of work each week in selected libraries in Montreal or its vicinity is required and gives the student an opportunity for progressive practice and for observation of daily routines in libraries where the pace is set by experienced workers.

5. Two Weeks Interneship.

Two weeks of continuous practical work under supervision is required after the examinations in May, in order that the student may acquire an appreciation of library work as a whole under everyday conditions.

McGILL UNIVERSITY

MONTREAL

SCHOOL OF PHYSICAL EDUCATION

McGILL UNIVERSITY

MONTREAL

SCHOOL OF PHYSICAL EDUCATION

1940-41

McGILL UNIVERSITY

SCHOOL OF PHYSICAL EDUCATION

ADMINISTRATIVE OFFICERS

Principal.....F. CYRIL JAMES, B.Com., M.A., Ph.D., F.R.S.C.

Director of the Department of Physical Education.....ARTHUR S. LAMB, B.P.E., M.D., C.M.

Secretary and Bursar.....F. O. STREDDER, M.A., Ph.D.
(on leave of absence)

Registrar.....T. H. MATTHEWS, M.A.

Acting Bursar.....WILLIAM BENTLEY, C.G.A., A.C.I.S.

A complete list of the teaching staff of the University, including the School of Physical Education, is printed as a separate announcement, which may be obtained from the Registrar's Office.

GENERAL INFORMATION

HISTORY AND AIMS.

The McGill School of Physical Education is an integral part of the University. It was established in 1912 and has grown from a short summer course to a full three years' course, the first year being spent in a recognized faculty of Arts and Science, or its equivalent. There is also a course for graduates leading to a higher diploma. The aim of the school is to provide Canada with well-qualified teachers of physical education who realize the contribution this subject should make towards sane and happy living.

THE FIELD.

There is a steady demand for trained teachers in physical education and the field is rapidly widening to include such organizations as the following: Public and Private Schools; High Schools; Colleges; Y.M.C.A.'s; Y.W.C.A.'s; Church Clubs; Playgrounds; Recreation Centres; Welfare and Social Clubs; Settlements; Industrial Organizations; Boy Scouts; Girl Guides; Summer Camps, etc. For the past two years, the School has not been able to meet the demand for teachers.

COURSES OFFERED.

For the session 1940-41 the two courses will be restricted to women students.

For the Diploma:—One year in the Faculty of Arts and Science, or its equivalent, followed by a two-year course, from September to May, inclusive, is required for the Diploma of the School, and includes an analysis of the underlying principles of general education, educational psychology, the physical organism as a functioning unit, and a study of the possible contribution of physical education to the problems of modern civilization. Opportunity for practice teaching under staff supervision is provided.

For the Higher Diploma:—A one-year course available only for University graduates who show special aptitude for the teaching profession, good neuro-muscular skill, and have, in their undergraduate work, completed courses considered relevant to further study in physical education.

ENTRANCE QUALIFICATIONS.

For the Diploma:—Senior Matriculation, the successful completion of the first year in the Faculty of Arts and Science, or equivalent work done elsewhere. Specially recommended candidates holding the Quebec Intermediate Teachers' Diploma will also be admitted.

For the Higher Diploma:—This Diploma is available only for students who hold a University degree, and who have covered satisfactory courses in their Undergraduate work.

General:—A natural aptitude for, and previous training in, physical activities, together with a sense of rhythm, are essential. A student should know how to swim, play basketball and tennis, skate, and have had some instruction in gymnastics and dancing before entering.

Students who desire to follow this course, should consult the head of the Department concerning detailed requirements in motor activities.

The programme of physical education places a rare opportunity in the hands of the instructor, and thus necessitates a forceful personality, guided by high ideals and aspirations, an understanding of people and an ability to organize and control group activities.

FACILITIES.

The University Library and Museum are available for use by the students, as are the University Hockey Rinks, Tennis Courts, the Percival Molson Memorial Stadium and the Sir Arthur Currie Memorial Gymnasium.

A special library of selected works and the leading magazines on physical education are available for use by the students.

Exceptional facilities are afforded for practice teaching and observation in the Public Schools under the Protestant Board of School Commissioners, and in various institutions throughout the City.

COSTUME FOR WOMEN STUDENTS.

The regulation costumes of the School must be worn, and students are not permitted to wear other than the regulation garments. Measurement blanks are furnished upon registration and students are advised where the costumes can be secured. A list of articles required, with approximate cost, is sent to students on application.

TEXT-BOOKS.

Students are required to purchase text-books, as the University Library exists for supplementary reading only.

STUDENT ORGANIZATIONS.

All women students are members of the Women's Union of McGill University and all its affiliated societies.

PROFESSIONAL OPPORTUNITIES.

Students are required to attend lectures and functions relevant to their professional training from time to time. In order to start their own professional libraries, students are expected to purchase a certain number of representative books and mimeographed material recommended by the School. For this purpose a special fee, not exceeding $15.00, is deposited by each student.

ADMISSION.

For the session 1940-41 women students only will be admitted to the regular courses in the School. They will not be admitted if they are less than eighteen (18) or more than twenty-seven (27) years of age, except under special conditions. A personal interview is advisable, and applicants must have had some practical experience in physical work before registration.

A photograph and two references, one from a former teacher, must be sent direct to the School. Neither reference should be from a relative.

Partial students, both men and women, may be admitted to special courses at the discretion of the Director, and the work done may count toward the Diplomas of the School.

REGULATIONS.

1. All students enter the School on an indeterminate probation. Students who are considered unsuitable for the profession are advised to discontinue.

2. A student may at the discretion of the Director be requested to withdraw at any time for reasons of unsatisfactory work or conduct.

3. Established University regulations are applicable in case of absences.

4. No student is permitted to participate in outside demonstrations, classes or teams, etc., without first having secured permission from the Director.

REGISTRATION AND FEES

Registration

Students in the School of Physical Education register at the Office of the School on September 16th, and the opening lecture will be given on Tuesday, September 17th. Students registering late are required to pay a late fee. Application forms should be returned not later than September 13th, 1940.

Fees.

The regular fees and special fees are given in the General Information Pamphlet included in this Announcement.

Dates for Payment.

Fees are due and payable at the Bursar's Office on Monday, September 16th, between the hours of 9 a.m. and 1 p.m. and 2.30 to 4 p.m., but they may be paid before that date. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees, the Bursar will send to the Director of the School, a list of the registered students who have not paid their fees. The Director will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

All fees are payable in Canadian currency.

EXAMINATIONS AND PRIZES

Diplomas.

Diplomas are granted to successful students at the end of the course. Strathcona Certificates issued through the Strathcona Trust are granted to students on the completion of one year in the School.

The Diplomas of the School are recognized by the Protestant Committee of the Department of Education, Province of Quebec, and the Protestant Board of School Commissioners of Montreal as qualifying students who are British subjects for the rank of Specialist in the Public Schools.

Candidates for the Higher Diplomas are urged to qualify professionally as High-school teachers of academic subjects before entering upon this course.

PRIZES.

1. GOLD MEDAL.—The School offers a gold medal to the student who attains the highest general proficiency throughout the course.

2. A Shield, presented by the Class of 1925, is awarded to the student attaining the highest standing in practice teaching throughout the course and is held for one year by the student.

3. LIEUTENANT-GOVERNOR'S SILVER MEDAL.—This medal is awarded to the Graduate Student who attains the highest general proficiency throughout the course.

4. A Cup, presented by the Class of 1916, is held for one year by the student who attains the highest standing in practical work.

5. JUNIOR YEAR PRIZE.—This prize is awarded to the Junior Student who attains the highest general proficiency in the sessional examinations.

N.B.—The above conditions may be amended and prizes may be withheld at the discretion of the Director.

COURSES OF INSTRUCTION

FOR THE UNDERGRADUATE DIPLOMA

The University reserves the right to amend or cancel any of the courses stated below.

YEAR I.

Anatomy.
Sociology 1. (See Announcement Faculty of Arts and Science)
Principles of Physical Education 1.
Personal and Community Hygiene.
Physical Education Practice to include:
- Theory and Practice of Games and Athletics 1.
- Theory and Practice of Dancing 1.
- Theory and Practice of Gymnastics 1.
- Winter Sports.
- Advanced Swimming.

YEAR II.

Physiology of Exercise.
History of Physical Education.
Principles of Physical Education 2.
Physical Education Methods.
Elective: (To be selected from courses given in the Faculty of Arts and Science and approved by the Director).
Physical Education Practice to include:
Theory and Practice of Games and Athletics 2.
Theory and Practice of Dancing 2.
Theory and Practice of Gymnastics 2.
Winter Sports.

THEORY—YEAR I

ANATOMY AND PHYSIOLOGY

The emphasis in this course is upon the body as a living mechanism, in which the function and structure are inseparably related and in which the activities of all parts are intimately co-ordinated. 3 hrs. 1 hr. Lab. Texts: Anatomy and Physiology, Williams (Saunders Co.).

SOCIOLOGY 1

See Announcement of the Faculty of Arts and Science.

PRINCIPLES OF PHYSICAL EDUCATION 1

An analysis of the aims of physical education and their relationship to those of general education. The study of programme construction in relation to the adaptation of the activities to the development of the child.

The nature and function of play, its relation to the psychological development of the child. The contribution of organized play to society and the principles underlying such organizations.

Standards for judging the teaching and measuring results; the principles of progression; the extra curricular programme and its guidance; the responsibilities, policies and relationships of the teacher of physical education. 3 hrs.

PERSONAL AND COMMUNITY HYGIENE

An elementary study of the more common pathogenic organisms and communicable disease; their relation to health; precautions against, and means of combating pathogenic organisms.

Health organizations and the means for the maintenance of health; the effect of various occupations on health; the laws of healthful living and the responsibility of the individual.

Principles and methods of health teaching are included and a study made of the health education programme. It involves a study of ways and means of teaching the health material to children of different ages, so that it may lead to better habits of living and become effective in life.

2 hrs. Texts: Personal Hygiene Applied, Williams (Saunders).

THEORY—YEAR II

Physiology of Exercise

A study by lectures and demonstrations of the effects of exercise on the neuro-muscular system, metabolism, respiration, circulation, etc. The effects of various types of exercise are studied in relation to the working power of the human machine and consideration given to the underlying principles in the selection of the best methods of exercise to employ.

3 hrs. Texts: Physiology of Exercise, Gould & Dye (Barnes), Bainbridge (Longmans Green), Schmidt & Sputh (Davis), McCurdy & McKenzie (Lee & Febiger), Schneider (Saunders).

History of Physical Education

The material of this course is designed to show the history of physical education as a direct outcome of the conditions of the time and place, the contribution of the great educators, the resulting movements of physical education and their influence upon the present day.

2 hrs. Texts: Brief History of Physical Education, Rice, (Barnes); History of Education, Cubberley (Houghton & Mifflin).

Principles of Physical Education 2

A continuation of Course 1, including a study of therapeutic gymnastics, corrective exercises and massage; the construction of a programme to meet the needs of those students whose health condition precludes participation in activity. Procedures in posture training.

Construction of curricula suitable for varying conditions and means by which their effectiveness may be determined.

3 hrs. 1 hr. Lab.

Physical Education Methods

The material for this course includes a study of the current methods in general education and their definite application to the teaching of physical education. Consideration of methods in the organization and administration of physical education.

The laboratory work of this course consists of actual teaching under supervision, so as to offer a pupil the opportunity to put into practice the methods studied in the course.

4 hrs. 2 hrs. Lab. Texts: Progressive Methods of Teaching, Stormzand (Houghton & Mifflin); Princ. & Tech. of Teaching, Thomas (Houghton & Mifflin); Foundations of Method, Kilpatrick (Macmillan). Conduct of Physical Education, Lee (Barnes).

Elective

(To be selected from Courses given in the Faculty of Arts and Science and approved by the Director.)

ACTIVITY COURSES—YEARS I and II

Theory and Practice of Games and Athletics:

Year I: Games of low organization suitable for young children, badminton, volleyball and basketball.

Year II: Advanced basketball, baseball, ice hockey, organization for mass activities.

During the outdoor season of each year, the work will include track and field athletics, tennis, field hockey, archery, winter sports, etc.

Theory and Practice of Dancing (for Women):

Year I: Folk and Modern Creative dancing, Theory of the dance.

Year II: Folk and Clog, Modern Creative, Social Dancing, Theory of the dance.

Theory and Practice of Gymnastics:

Year I: The theory of body mechanics; fundamentals of gymnastics; tumbling, self-testing activities; apparatus.

Year II: Advanced theory and practice in the subject matter of Year I.

Aquatics: Years I and II.

Students are expected to know how to swim with a fair degree of ability before entering the School. Special attention will be given to advanced work in swimming, diving, life saving and other aquatic events.

FOR THE GRADUATE HIGHER DIPLOMA

Selected requirements from subjects in the I and II years, in accordance with the needs of the student. The time required to complete the work for this diploma depends upon the qualifications of the student.

(a) Assigned study of special problems.

(b) Extended reading.

(c) Seminars.

(d) Essay.

Theory

A careful analysis is made of work covered in the undergraduate years and the theoretical course is arranged accordingly.

Students are assigned to undergraduate courses in cases where it seems advisable, and in other instances are assigned to independent work under different instructors.

An essay may be required at the end of the course, giving evidence of a thorough grasp of the work, and written in good literary style.

Activity Courses

Students are assigned to regular undergraduate courses when deemed necessary. Special opportunities are provided in those activities for which students are specially qualified. Practice Teaching takes place in the University classes during the first term, and in the Public Schools during the second term.

McGILL UNIVERSITY

MONTREAL

SCHOOL FOR GRADUATE NURSES

1940 - 1941

McGILL UNIVERSITY

MONTREAL

SCHOOL FOR
GRADUATE NURSES

1940 - 1941

McGILL UNIVERSITY

SCHOOL FOR GRADUATE NURSES

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, B.Com., M.A., Ph.D., F.R.S.C.

Director of the School for Graduate Nurses Marion Lindeburgh, R.N., M.A.

Secretary and Bursar.....F. O. Stredder, M.A., Ph.D.
(on leave of absence)

Registrar.....T. H. Matthews, M.A.

Acting Bursar.....William Bentley, C.G.A.

COMMITTEE

Professor Grant Fleming, *Chairman* — Dean J. C. Simpson

The Principal — Professor John Hughes

Professor J. C. Meakins

Miss Marion Lindeburgh, *Secretary*

A complete list of the teaching staff of the University, including the School for Graduate Nurses, is printed as a separate announcement which may be obtained from the Registrar's Office.

GENERAL STATEMENT

Rapid expansion and new developments in nursing offer many opportunities for personal satisfaction and professional service to the nurse who has secured special preparation. The three years of basic training in hospital should provide a sound foundation for the general practice of nursing. Further study and experience are now considered essential for positions of leadership.

Since its foundation in 1920, the School has functioned as a graduate professional school in nursing education. Its aims have been, firstly, to provide the necessary preparation for teachers, supervisors and adminis-

trators in hospitals and schools of nursing, and for the field of public health nursing; secondly, to provide facilities for part-time study for nurses actively engaged in nursing in Montreal.

The resources of McGill University are at the disposal of the School. The Faculties of Medicine and of Arts and Science, and the University Libraries, contribute to the programme of study. In addition, the teaching hospitals as well as health and social agencies in the city offer excellent opportunities for observation and practice.

The following courses are offered:—

I. Teaching and Supervision in Schools of Nursing.

II. Public Health Nursing.

Advanced courses:—

III. Administration in Hospitals and Schools of Nursing.

IV. Administration and Supervision in Public Health Nursing.

Applicants for the advanced courses must present evidence of having held positions for at least two years in which they have demonstrated teaching and administrative ability as well as fitness for leadership. Course I or II, or the equivalent, followed by satisfactory experience, would provide the most desirable background for Course III or IV.

ENTRANCE REQUIREMENTS

1. The School for Graduate Nurses recognizes any examination that is accepted by the Matriculation Board of McGill University as an alternative to the University's own Junior Matriculation Examination. The number of subjects or papers to be taken in any such examination is the number required to obtain Junior Matriculation standing in the Faculty of Arts and Science (e.g., ten papers in Quebec; twelve papers in Ontario), but a wider choice of subjects is permitted.

The compulsory subjects are English, History, Algebra or Advanced Arithmetic, and Chemistry or Biology. Chemistry and Biology should *both* be taken if possible. The other subjects of the examination are entirely optional.

The Faculty of Arts and Science will admit a graduate of the School to the First Year of any of its courses with this Matriculation if the student is pecially recommended by the School for Graduate Nurses.

CANADIAN CERTIFICATES RECOGNIZED

The Junior Matriculation Certificate of McGill University or any of the following:

PROVINCE OF QUEBEC.

The High School Leaving Certificate.

The Catholic High School Leaving Certificate.

PROVINCE OF ONTARIO.

Middle School Certificate.

PROVINCE OF NEW BRUNSWICK.

Junior Matriculation or High School Leaving Certificate.

PROVINCE OF NOVA SCOTIA.

Grade XI Certificate.

PROVINCE OF PRINCE EDWARD ISLAND.

Second Year Certificate of Prince of Wales College.

PROVINCE OF BRITISH COLUMBIA.

Junior Matriculation.

PROVINCE OF MANITOBA.

Grade XI Certificate.

PROVINCES OF ALBERTA AND SASKATCHEWAN.

Grade XI Certificate.

2. All applicants must present evidence of the satisfactory completion of the undergraduate course in an approved school of nursing. Applicants must also be registered in the province or state from which they come.

For the advanced courses evidence of satisfactory professional experience must be presented.

3. A certificate of medical examination must be submitted as required by the University, and of successful vaccination within seven years or of insusceptibility to vaccine within five years, in accordance with provincial health regulations. In addition, students are required to report before November first for the health examination conducted by the University.

APPLICATION FOR ADMISSION

All applications must be made on forms which may be obtained from the School for Graduate Nurses, McGill University.

REGISTRATION

Students in Public Health Nursing will register on September 3rd for field work.

Students in Teaching and Supervision will register on September 13th for field work.

Students in Administration will register on September 13th for field work.

University registration dates: September 26th to 28th (until noon on the 28th). The opening lecture will be given on September 30th.

ATTENDANCE

Students are required to attend at least seven eighths of the total number of lectures or laboratory periods in each course.

SCHOLARSHIPS

Applicants for scholarships must meet the entrance requirements of the University. Preference will be given to applicants with experience in the nursing field.

1. Alexandra Hospital.
   The Board of Governors offers a scholarship for 1940-41 in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses. Members of the hospital nursing staff are eligible.

2. Association of Registered Nurses of the Province of Quebec.
   A scholarship of $350.00 is offered to a graduate of an approved school of nursing in the Province of Quebec for any course selected in the School for Graduate Nurses.

3. Children's Memorial Hospital School of Nursing.
   The Board of Governors offers a scholarship in the form of maintenance at the hospital during one year's study at the School for Graduate Nurses.

4. Flora Madeline Shaw Memorial Fund.
   A scholarship of $250.00 is offered in memory of Miss Flora Madeline Shaw to nurses wishing to take a course at the School for Graduate Nurses. (Not offered 1940-41).

5. Montreal General Hospital School of Nursing.
   1. Three annual scholarships are made possible by the Mildred Hope Forbes Memorial Scholarship Fund, established by the Honourable Cairine Wilson for graduates of the Montreal General Hospital School of Nursing.

2. The Alumnae Association of the Montreal General Hospital School for Nurses offers a scholarship of $300.00. Only members of the Alumnae Association are eligible.

6. Royal Victoria Hospital School of Nursing.

1. The Board of Management offers an annual scholarship for a year's study at the School for Graduate Nurses.

2. The Alumnae Association of the Royal Victoria Hospital School of Nursing offers:—

(*a*) The Mabel F. Hersey Scholarship for post-graduate work.

(*b*) The Dr. Garrow Scholarship for post-graduate work.

7. Shriners' Hospital for Crippled Children.

A scholarship in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses is offered by the Board of Governors of the Montreal Unit.

8. Victorian Order of Nurses for Canada.

The Victorian Order of Nurses offers some assistance to certain members of its staff to undertake graduate study in public health nursing in any Canadian University where such courses are given.

9. The Homoeopathic Hospital of Montreal.

The Alumnae Association of the Homoeopathic Hospital School for Nurses offers a scholarship of $200.00 for a year's study at the School for Graduate Nurses. Only members of the Alumnae Association are eligible.

EXAMINATIONS

The pass mark in all examinations, in keeping with University regulations, is fifty per cent.

Results of examinations are recorded according to class, as follows: Class I, 80% to 100%; Class II, 65% to 79%; Class III, 50% to 64%.

FEES AND DEPOSITS

Tuition Fees*

1. For the regular certificate courses, per session		$165.00
By instalments:	First instalment	85.00
	Second instalment	85.00

* Includes Registration, Graduation, Health, Library and Campus privileges.

2. Registered students not proceeding to a Certificate are classed as Partial Students and pay $14.00 per hour of instruction per week for a full course, but the maximum fee shall not exceed that charged for a regular certificate course.

   Partial Students taking courses in the Faculty of Arts and Science will pay the fees as outlined in the Announcement of that Faculty.

3. Fees for Laboratory Courses are $7.00 per hour of instruction per week for the academic year. This fee will cover laboratory materials, reagents and use of instruments and apparatus but it will not cover losses through waste, neglect or breakage. The charges under this head will be deducted from the student's caution money.

4. The following fees are payable by students taking field work:

   Public Health Nursing..... $25.00
   (Students who are exempt from the preliminary field work pay $15.00).

   Teaching and Supervision..... $10.00

   Administration..... $10.00

5. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1 p.m.. and 2.30 to 4 p.m. on Monday, September 30th, or if desired they may be remitted by mail before the above date. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

6. Immediately after the prescribed dates for the payments of fees, the Bursar will send to the Director of the School a list of the registered students who have not paid their fees. The Director will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

7. All fees are payable in Canadian currency.

NOTE: Special fees are given in the General Information Pamphlet included in this Announcement.

BOARD AND RESIDENCE

Every assistance is given to students in finding suitable living accommodation. A list of approved lodgings is kept on file in the School, and out of town students are expected to consult the Director before making final arrangements for board and room.

EXPENSES

Approximate Cost of the Course:—Students who register in those courses requiring field work will take this extra time into consideration in estimating their expenses. Estimate of average expenses for the academic year (30-32 weeks) is as follows:

University fees	$175.00	
Books and laboratory fees	20.00 to	$ 40.00
Board and lodging	300.00 "	400.00
Incidentals	30.00 "	40.00
Average total	525.00 "	655.00

COURSES

I. TEACHING AND SUPERVISION IN SCHOOLS OF NURSING

This course prepares qualified nurses for positions as instructors and supervisors in schools of nursing. A period of satisfactory experience in nursing following completion of the undergraduate course is considered a prerequisite. The required field work will be adjusted to meet the individual needs.

Required Courses

Faculty of Arts and Science:

Psychology 1 or Sociology 1
Education 1
Chemistry 16

Nursing Education

A. General

7. Nursing Legislation
16. Public Health and Public Health Nursing (First term)
6. History of Nursing
11. Growth, Development and Adjustment of the Individual
14. Bacteriology or Physiology

B. Teaching and Supervision

4. Nursing Education
4A. Principles and Methods of Teaching
4B. Observation, Practice Teaching and Field Work
5. Ward Administration, Teaching and Supervision

Substitute or additional professional courses may be permitted at the discretion of the Director.

II. PUBLIC HEALTH NURSING

This course prepares qualified nurses for staff positions in public health nursing organizations.

The required field work will be adjusted to meet individual needs.

Required Courses

Faculty of Arts and Science

Psychology 1 or Sociology 1
Education 1

Nursing Education

A. General

14. Bacteriology
11. Growth, Development and Adjustment of the Individual
9. Public Health and Preventive Medicine
10. Nutrition
15. Social Case Work

B. Public Health Nursing

2. Public Health Nursing
2A. Public Health Nursing
12. Health Education

Substitute or additional professional courses may be permitted at th discretion of the Director.

Field Work in Public Health Nursing

In addition to the courses as outlined, arrangements are made fo students to spend some time in observation and practice in public healt nursing. During September, May and June, students spend ten week in the field. Weekly conferences are held in connection with this wor and written reports are submitted.

All field work is adjusted to meet individual needs and students ar not required to repeat experience which has been gained previously unde adequate supervision. Throughout the year, one half day each week spent with a case working agency. In addition, field trips are arranged t observe the work of various health and social agencies in the community.

Practice work is arranged with the following agencies:—

Child Welfare Association.
Family Welfare Association.
Mental Hygiene Institute.
Montreal Department of Health.
Royal Edward Institute (Tuberculosis Clinic).

Victorian Order of Nurses.

Social Service Departments of the various hospitals.

Industrial Health Services.

St. George's School.

Rural practice work in one of the County Health Units near Montreal may be arranged.

UNIFORMS

When working with the Victorian Order of Nurses, students must wear a plain one or two piece dress of washable material in blue, with white collar and cuffs and a black Windsor tie. Plain dark hats and coats are worn.

(A suitable dress in standard sizes may be purchased at a very moderate cost after arrival in Montreal if desired.)

III. ADMINISTRATION IN HOSPITALS AND SCHOOLS OF NURSING

This course prepares qualified nurses for positions as superintendents and directors in schools of nursing. Applicants for the course must show evidence of a satisfactory record of two or more years in an executive position. The course "Teaching and Supervision in Schools of Nursing" or the equivalent, followed by satisfactory experience would provide the most desirable background for this advanced course. The required field work will be adjusted to meet individual needs.

REQUIRED COURSES

FACULTY OF ARTS AND SCIENCE

Psychology 1 or Sociology 1
Education 1

NURSING EDUCATION

A. General

7. Nursing Legislation
11. Growth, Development and Adjustment of the Individual
16. Public Health and Public Health Nursing (First Term)
5. Ward Administration, Teaching and Supervision
4. Nursing Education
4A. Principles and Methods of Teaching

B. Administration

1. Administration in Schools of Nursing
1A. Administration in Schools of Nursing
8. Hospital Economics and Administration

Substitute or additional professional courses may be permitted at the discretion of the Director.

IV. ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING

This course prepares qualified nurses for positions as supervisors and directors in public health nursing organizations.

The course "Public Health Nursing" or its equivalent and at least two years of satisfactory experience in the field are prerequisite.

Required Courses

Faculty of Arts and Science

Sociology 2 or Sociology 7.
Economics 1 or Psychology 9.

Nursing Education

A. General

7. Nursing Legislation
4. Nursing Education

B. Administration and Supervision in Public Health Nursing

3. Administration and Supervision in Public Health Nursing
3A. Administration and Supervision in Public Health Nursing
3B. Special Problems in Supervision.

Substitute or additional professional courses may be permitted at the discretion of the Director.

COURSES IN THE SCHOOL FOR GRADUATE NURSES

1. Administration in Schools of Nursing.

The educational administration of the school of nursing, its function, organization and control; the educational policy and programme, facilities, organization, staff, students.

Three hours (second term)..... Miss Marion Lindeburgh and special lecturers.

1A. Administration in Hospitals and Schools of Nursing—Field Work.

Weekly excursions to hospitals and health organizations in the community; weekly conferences; reports of observation. During the month of September provision is made for two weeks of preliminary observation in affiliated hospitals. At the end of the term a short period of special field work is arranged to meet individual needs.

2. Public Health Nursing.

Public health nursing today; evolution, objectives, functions and methods with emphasis on health teaching, records and statistics; application of principles and methods to development of family health

service including adequate maternal, infant, pre-school, school and industrial nursing programmes; principles of organization and administration. This course is closely linked with observation and practice in the field.

Three hours.....Miss Mary S. Mathewson and special lecturers.

2A. Public Health Nursing—Field Work.

a. Field trips to health and social agencies in the community.

b. One half day each week throughout the year with a case working agency.

c. A practice period of ten weeks in the field of public health nursing. Weekly conferences and written reports are included in this work. This requirement is reduced for those who have had previous experience under adequate supervision.

3. Administration and Supervision in Public Health Nursing.

General principles of administration and supervision; executive and educational functions; application to the field of public health nursing; organization, financial support, personnel selection and management; staff and student education; supervisory programmes.

Three hours.....Miss Mary S. Mathewson and special lecturers.

3A. Administration and Supervision in Public Health Nursing.

Field work with health and social agencies. Observation of methods and content of supervision followed by conference and discussion. Practice in administration and supervision in the field.

3B. Special Problems in Administration and Supervision in Public Health Nursing.

Discussion of problems of organization and supervision; publicity; staff education; field studies, reports and conferences.

Two hours.....Miss Mary S. Mathewson and special lecturers.

4. Nursing Education.

Present trends and developments in nursing education, surveys and reports; a brief historical review of schools of nursing in their relation to hospitals; practices in professional education, application to nursing education; school of nursing curricula, principles and method of construction; selection and organization of content to include theory and practice.

Two hours, first term..... Miss Marion Lindeburgh.

4A. Principles and Methods of Teaching.

Psychological principles underlying learning and teaching; effective study habits; selection and organization of subject matter. Principles of curriculum construction; classification of subjects in the curriculum;

application of principles and modern methods of teaching to the various subjects with special reference to the teaching of nursing.

Two hours.....Miss Marion Lindeburgh.

4B. Observation, Practice Teaching and Field Work.

First term—Weekly observation in affiliated schools of nursing; reports of observation, conferences and discussion.

Second term—Observation and practice in teaching in affiliated schools of nursing; weekly conferences.

Field work—During the month of September provision is made for two weeks of preliminary observation in the Montreal General Hospital and Royal Victoria Hospital. At the end of the University term, a short period of special field work is arranged to meet individual needs.

5. Ward Administration, Teaching and Supervision.

Ward management; problems of nursing service and nursing education; personnel; staffing; duties, responsibilities and relationship of head nurse and clinical supervisor; the ward teaching programme; methods of assignment; special methods of clinical teaching; evaluating students and their work. Principles and application of educational supervision.

Two hours, second term.....Miss Marion Lindeburgh and special lecturers.

6. History of Nursing.

An historical review: as a means of securing an appreciation of nursing traditions and ideals; as a means of understanding and interpreting trends and developments in modern nursing; consideration of source materials, and effective methods of teaching.

One hour.....Miss Mary S. Mathewson.

7. Nursing Legislation.

A general survey of legislative developments in nursing in various countries; particular emphasis upon registration, and measures for legislative control in Canada.

One hour, second term.....Miss E. Frances Upton.

8. Hospital Economics and Administration.

Lectures and observations—This course deals with the hospital and its relation to the community; the board of trustees, the medical board and the general staff; problems of planning, organization, equipment and administration of the various departments; the purchase and handling of supplies and other problems of hospital administration from the point of view of the administrator.

Two hours, first term.....Dr. John C. Mackenzie.

9. Public Health and Preventive Medicine.

A brief history of the development and present status of public health administration; the control and prevention of communicable diseases; maternal and child hygiene; oral hygiene; discussion of sanitation, housing, water, food and milk supply; industrial hygiene.

Three hours.....Professor Grant Fleming and special lecturers.

10. Nutrition and Health.

Elements of nutrition; nutritive properties of foods. Practical application of these principles, budgeting.

Two hours, one term.....Miss Marion Harlow.

11. Growth, Development and Adjustment of the Individual.

A study of human nature and behaviour through an integrated consideration of mental, emotional, social and physical aspects of growth; personality maladjustments; educational and social factors involved in promotion of healthy development.

Two hours.....Professor W. T. B. Mitchell, Mrs. W. T. B. Mitchell, Dr. Alan Ross.

12. Health Education.

Psychological principles underlying learning and teaching; selection and organization of subject matter.

General principles and methods underlying health teaching programmes as applied to home, school and community situations. Observation and practice teaching.

Two hours.....Miss Marion Lindeburgh, Miss Mary S. Mathewson.

14. Bacteriology.

A combined lecture and laboratory course.

Four hours, first term.....Dr. Ruth Dow.

15. Social Case Work.

A general introduction to the basic processes of social case work in its community setting.

Two hours, one term.....Miss Dorothy King.

16. Public Health and Public Health Nursing.
(For Teachers, Supervisors and Administrators).

Health problems of today; evolution of the modern public health movement; objectives and programmes of official and voluntary agencies; role of nurse in promotion of public health objectives; methods in public health nursing; study of community health needs and resources including observation with public health nurse.

Three hours, first term..Prof. Grant Fleming, Miss Mary S. Mathewson and special lecturers.

COURSES IN THE FACULTY OF ARTS AND SCIENCE

PSYCHOLOGY 1 (Introductory Course).
Two hours (in addition, three laboratory periods a month) to be arranged.....Professor W. D. Tait.

PSYCHOLOGY 9 (Educational Psychology).
Three hours.....Professor W. D. Tait.

SOCIOLOGY 1 (Introductory Course).
Three hours.....Professor C. A. Dawson.

SOCIOLOGY 2 (The Community).
Three hours.....Professor C. A. Dawson.

SOCIOLOGY 7 (The Family).
Three hours.....Professor C. A. Dawson.

CHEMISTRY 16 (Chemistry of Daily Life).
Two hours: three hours laboratory.....Professor W. H. Hatcher.

ECONOMICS 1 (Introductory Course).
Three hours.....Professor John Culliton and Mr. Eugene Forsey.

EDUCATION 1 (General Principles).
Three hours.....Professors John Hughes and A. B. Currie.

PHYSIOLOGY 1A (Introductory Course).
Two hours Lecturers to be appointed.

MACDONALD COLLEGE

McGILL UNIVERSITY

ANNOUNCEMENT

OF THE

FACULTY OF AGRICULTURE
SCHOOL OF HOUSEHOLD SCIENCE

AND

THE SCHOOL FOR TEACHERS

For the Session 1940-41

MACDONALD COLLEGE, QUE.

GENERAL INFORMATION

Post Office Address:—There is a post office in the main building, and all mail should be addressed simply: Macdonald College, Que.

Railways:—Ste. Anne de Bellevue, Que., is on the main lines of the Canadian National Railways and of the Canadian Pacific Railways, 20 miles west of Montreal. The local stations are but a short walk from the College. Baggage checks should be surrendered at the Secretary's Office, Room 11, Main Building, where arrangements will be made for the transfer of baggage upon entering and leaving College.

Freight and Express:—The address for express or freight parcels is:—Ste. Anne de Bellevue (Jacques Cartier Co.), Que.

Telegrams:—Telegrams should be addressed:—Macdonald College, Ste. Anne de Bellevue, Que.

Telephones:—Administrative:—Ste. Anne de Bellevue, No. 335.
Men's Residence:—Ste. Anne de Bellevue, No. 782.
Women's Residence:—Ste. Anne de Bellevue, No. 810.

Highway:—The Quebec provincial highway No. 2 passes through Ste. Anne de Bellevue.

Bank at Ste. Anne de Bellevue:—The Bank of Montreal.

Churches:—The following denominations are represented at Ste. Anne de Bellevue:—

Church of England in Canada,
Roman Catholic Church in Canada,
United Church of Canada.

Students of all religious denominations are free to enter Macdonald College. The regulations of the Council of Education of the Province of Quebec apply only to students in the School for Teachers.

INDEX

	Page
Absence from Classes	20
Administrative Officers	14
Advanced Diploma Course	39
Advancement from Year to Year	62
Advisory Committee on Agriculture	15
Affiliated Colleges	9, 10
Agriculture, Faculty of	9, 32
Alliance Française Medals	98
Application Forms	19, 84
Associate Committee on Parasitology	15
Association of Protestant Teachers' Prize	98
Attendance at Classes	33
Badminton Challenge Cup	101
Baseball Cup	101
Bathing Suits	29
B.H.S. Course	76
Bishop Carlisle Prize	98
Board and Lodging	25
Books, Supplies	26, 82, 94
Bryson (Ella) Scholarship	100
B.Sc. (Agr.) Course	41
Bursaries	85, 95, 100
Calendar for Session	17
Cameron (A. Kirke) Prize	99
Caution Money Deposit	25
Committees	15
Conduct of Students	20
Conklin Trophy	96
Contagious Diseases	22
Courses Offered	32
Courses, Detailed Descriptions of:—	
B.Sc. (Agr.)	46
Diploma	34, 39
B.H.S.	76
Homemakers	73
Teachers	89

Courses, Evaluation of 44
Courses of Study 44, 64–72
Coteau St. Pierre Ass'n. of Protestant Teachers' Prize 99
Cutler Shield 96

Degrees in Agriculture 41, 63
Degrees in Household Science 76
Departmental Services 102
Deposit with Application 32
Diploma Course in Agriculture 33
Diplomas, Teachers' 87

Elementary Diploma 84, 87, 88
Entrance Requirements:—
General 32
B.Sc. (Agr.) Course 41
Diploma Course 34
B.H.S. Course 77
Homemaker Course 73
Pupil Dietitian Course 82
School for Teachers 83

Evaluation of Courses 44

Examinations in:—
Diploma Course 38
B.Sc. (Agr.) and B.H.S. Courses 61
Homemaker Course 76
School for Teachers 87
Examinations, Supplemental 39, 63, 76
Excursions, Farmers' 102
Expenses 25

Extension Service:—
Faculty of Agriculture 102
School of Household Science 103

Faculty of Agriculture 9, 32
Farm Experience 44
Farmers' Excursions 102
Fees 23
Firearms 20
Fisher Trust Fund 95

General Information 2
General Agriculture Option 45
General Biology Option 45

Governor General's Medal 96, 97, 98
Graduate Courses 63
Graduation Requirements 44
Grant to Agriculture Students 29
Guests 19, 22
Gymnasium Costumes 28

Hersey (Milton L.) Prizes 99
High School Teachers' Diploma 87
High School, Macdonald 94
Hill (Sarah Emma) Scholarship 100
Homemaker Course 73
Honour Standing 62
Household Science, School of 9, 73

I.O.D.E. Bursary 95
Illness 20, 26
Institute of Parasitology 9
Instructors 11
Intermediate Diploma 85, 87, 88

Judges and Speakers 102

Kindergarten Director's Diploma 85, 87, 88
Kneeland (Gardner) Memorial Prize 99

Laundry 25
Leave of Absence 21, 22
Library 101
Library Committee 16
Lieutenant Governor's Medals 95, 96, 98
Liquor 20
Living Expenses 25
Lochhead Memorial Prize 96

Macdonald College 9
Macdonald High School 94
Macfarlane (Frederica Campbell) Prize 97
Major Subjects 45
McGill University 8
Minister of Agriculture Medal 95
Montreal Housewives' League Prize 97
Montreal Local Council of Women Prize 97
Music 22

Nicol (Hon. Jacob) Prize 99
Nova Scotia Agriculture College Scholarship 95

Officers, Administrative 14
Officers of Instruction 11
Outfit Requirements for Women Students 27
Outremont Protestant Teachers' Association Prize 99

Parasitology, Institute of 9
Partial Courses 33, 73
Pass Standing 63
Payments 29, 30
Pre-holiday Leave 20
Prince of Wales Medal 98
Prizes and Scholarships 95
Provincial Government Grant 29
Pupil Dietitian Course 82

Quarantine 22
Quebec Government Grant 29

Registration 19, 20
Religious Instruction 93
Requirements for Graduation 44
Residence Rules, General 19
Residence Rules, Women Students 21
Robb (Janet Morison) Bursary 100
Robins (Dr. S. P.) Memorial Prize 99
Room Furnishings 26

Scholarships and Prizes 95
School for Teachers 9, 83
Scott (Hon. Gordon W.) Prize 99
Single Rooms 25
Specimens sent for Examination 102
Stern Cup for Stock Judging 96
Stewart-Richardson (Lady Constance) Swimming Cups 101
Stewart (Walter M.) Collection 101
Student Activities 25
Summer Work for Students 46
Suspension 19
Superintendent of Education Medal 98
Supplemental Examinations 39, 63, 76
Syllabi 64–72

Teachers, School for 9, 83
Teachers' Diplomas 87
Text Books 26, 82, 94

Todd (Dr. John L.) Gymnastic Medals.....101
Travelling Expense Refund..... 87
Trips, Household Science..... 26

Uniforms..... 27
University Scholarships..... 97

Visitors..... 19, 22, 102

W.C.T.U. (Frances Willard) Prize..... 99
Wilson (J. C.) Prize..... 98

McGill University

VISITOR

His Excellency the Governor-General of Canada.

GOVERNORS

Sir Edward W. Beatty, G.B.E., K.C., LL.D., D.C.L., Chancellor.
F. Cyril James, B. Com., M.A., Ph.D., Principal and Vice-Chancellor.
W. M. Birks.
John W. Ross, LL.D.
Sir Herbert S. Holt, Kt., LL.D.
Huntly R. Drummond.
J. W. McConnell.
F. N. Southam.
Walter M. Stewart.
W. W. Chipman, B.A., M.D., LL.D., D.C.L., F.R.C.S. (Edin.).
George C. McDonald, M.C., B.A.
George S. Currie, D.S.O., M.C., B.A.
Arthur B. Purvis.
Arthur B. Wood, B.A., F.I.A., F.A.S.
Paul F. Sise, B.Sc.
Hon. A. K. Hugessen, K.C., B.A., B.C.L.
Morris W. Wilson, D.C.L.
Colonel A. A. Magee, D.S.O., K.C., B.A.
C. W. Colby, M.A., Ph.D., LL.D., D.C.L., F.R.S.C.
Lewis W. Douglas, B.A., LL.D.
Walter Molson, B.A.
George F. Stephens, M.D., C.M.
H. B. McLean, M.A., B.C.L.
John T. Hackett, K.C., B.C.L., B.L.
C. G. MacKinnon, B.A., B.C.L.

PRINCIPAL

F. Cyril James, B. Com., M.A., Ph.D.

MACDONALD COLLEGE

Macdonald College, which was founded and endowed by the late Sir William C. Macdonald, is incorporated with McGill University, and is situated twenty miles west of Montreal, at Ste Anne de Bellevue, Que. It is composed of the Faculty of Agriculture, which includes the School of Household Science, and of the School for Teachers for the Protestant schools of the Province of Quebec.

FACULTY OF AGRICULTURE

The work of the agricultural departments of the College falls into three main divisions: teaching, research, and extension. Teaching and research form the major part of their work. Extension service is undertaken by departments as the need or opportunity may arise.

Macdonald College is officially recognized as the finishing institution for students who have taken their preliminary training at the Nova Scotia College of Agriculture, Truro, Nova Scotia.

The terms of the affiliation provide:—

That the entrance requirements for degree work at Truro shall correspond to those required by the Faculty of Agriculture, McGill University; and

That the Nova Scotia College of Agriculture, in consultation with Macdonald College, shall so co-ordinate her courses that it shall be possible for students from Truro to enter the advanced classes at Macdonald College with the same degree of training and academic equipment as those who have had preliminary training at the latter institution.

THE SCHOOL OF HOUSEHOLD SCIENCE

The School of Household Science is an integral part of the Faculty of Agriculture. The main function of the School is teaching, in relation to the home and for professional service in institutions.

SCHOOL FOR TEACHERS

The School for Teachers is a School of McGill University, controlled by a committee established under an agreement with the Government of the Province of Quebec. The School trains elementary, intermediate, and kindergarten teachers for the Protestant schools of the Province of Quebec.

THE INSTITUTE OF PARASITOLOGY

This Institute, located at Macdonald College, is governed by a joint committee of the National Research Council and McGill University,

and has, as its main functions, the prosecution of research on animal parasites and the instruction of graduate students.

ASSOCIATED COLLEGES

By special agreement, certain institutions have arranged to provide their students with a course of study substantially equivalent to the first two years in Agriculture and Household Science at Macdonald College. Students who have satisfactorily completed such a course of study and are specifically recommended by the authorities of their college are permitted to enter the third year at Macdonald College.

The following are the Institutions with whom the foregoing arrangement exists:—

Nova Scotia College of Agriculture, Truro, N.S.
(Agriculture only);

Prince of Wales College, Charlottetown, P.E.I.
(Agriculture and Household Science);

Memorial College, St. John's, Newfoundland
(Agriculture and Household Science).

MACDONALD COLLEGE

(McGILL UNIVERSITY)

PRINCIPAL

F. CYRIL JAMES, B.COM., M.A., PH.D.

VICE-PRINCIPAL

W. H. BRITTAIN, M.S. in Agr. (Cornell), PH.D. (Cornell), F.R.S.C.

OFFICERS OF INSTRUCTION

FACULTY OF AGRICULTURE

Dean:—W. H. BRITTAIN, M.S. in Agr. (Cornell), PH.D. (Cornell), F.R.S.C., Professor and Head of Department of Entomology.

HENRY R. C. AVISON, B.A., Lecturer in English.

J. NORMAN BIRD, M.A. (Toronto), M.S.A., Lecturer in Agronomy.

H. D. BRUNT, B.A., PH.D., Associate Professor and Head of the Department of English.

THOMAS W. M. CAMERON, T.D., M.A. (Edin.), B.Sc. (Vet. Sci.) (Edin.), D.Sc. (Edin.), PH.D. (Lond.), M.R.C.V.S., F.R.S.C., Professor of Parasitology; Director of the Institute of Parasitology.

H. BRUCE COLLIER, M.A., PH.D. (Toronto) Lecturer in Parasitology.

RAYMOND L. CONKLIN, D.V.M. (Cornell), M.Sc., M.D., C.M., Professor and Head of the Department of Animal Pathology; Veterinarian.

JOHN G. COULSON, M.A. (Queen's), Associate Professor and Head of the Department of Plant Pathology.

EARLE W. CRAMPTON, M.S. (Iowa), PH.D. (Cornell), Associate Professor of Animal Nutrition.

IVAN H. CROWELL, B.Sc. (New Brunswick), A.M. (Miami and Harvard), PH.D. (Harvard), Lecturer in Plant Pathology.

H. W. CUNNINGHAM, Instructor in Dairying.

WALTER A. DELONG, B.S.A. (Toronto), M.Sc. (McGill), PH.D. (Minnesota), Assistant Professor of Chemistry.

E. MELVILLE DUPORTE, PH.D., Assistant Professor of Entomology.

Ronald Grant, B.Sc. (Lond.), PH.D. (Edin.), F.R.S.E., Sessional Lecturer in Zoology. (Faculty of Arts and Science).

P. H. H. GRAY, M.A. (Oxon), D.Sc. (Lond.), Associate Professor and Head of Department of Bacteriology.

LIONEL H. HAMILTON, M.S. (Wisconsin), Assistant Professor of Animal Husbandry, Director of Diploma Courses, and Field Representative.

L. G. HEIMPEL, M.S. (Cornell), Associate Professor and Head of Department of Agricultural Engineering.

R. J. HILTON, B.Sc. (Agr.), PH.D. (London), Lecturer in Horticulture.

S. R. N. Hodgins, M.A., B.S.A., Assistant Professor of English and Journalism. (On leave of absence).

C. L. Huskins, M.Sc., (Alberta), Ph.D., D.Sc. (London), F.R.S.C., Professor and Head of Department of Genetics (Faculty of Arts and Science).

Wm. Kalbfleisch, B.E. (Mech.), B.E. (Ag. Eng.)(Sask.), M.S.A. (Cornell), Lecturer in Agricultural Engineering.

J. E. Lattimer, Ph. D. (Wisconsin), F.R.E.S., Professor and Head of Department of Agricultural Economics.

E. A. Lods, M.S.A., Assistant Professor of Agronomy.

W. A. Maw, M.S.A., Assistant Professor and Head of Department of Poultry Husbandry.

Max J. Miller, B.Sc. (Sask.), M.Sc., Ph.D. (Tulane), Research Associate.

William D. McFarlane, Ph.D. (Toronto), Professor and Head of the Department of Chemistry.

N. B. McMaster, M.Sc., Lecturer in Bacteriology.

Frank O. Morrison, B.A., B.Sc. in Agriculture, M.Sc. (Alberta), Ph.D., Lecturer in Entomology.

H. R. Murray, M.Sc. (Cornell), Assistant Professor of Horticulture.

A. R. Ness, B.S.A., Professor and Head of Department of Animal Husbandry.

N. Nikolaiczuk, M.Sc. (Alberta), Lecturer in Poultry Husbandry.

William Fraser Oliver, B.A., (McMaster), M.A., Ph.D. (Toronto), Lecturer in Physics.

L. C. Raymond, M.S. (Wisconsin), Assistant Professor of Agronomy.

W. Rowles, M.Sc., Ph.D., Associate Professor and Head of Department of Physics.

G. W. Scarth, M.A. (Edin.), D.Sc., F.R.S.C., Professor and Head of Department of Botany (Faculty of Arts and Science).

J. F. Snell, B.A. (Toronto), Ph.D. (Cornell), F.C.I.C., F.C.S., Emeritus Professor of Chemistry.

Robert Summerby, M.S.A. (Cornell), Professor and Head of Department of Agronomy.

William E. Swales, B.V.Sc. (Toronto), V.S. (Ontario), Ph.D., Research Associate.

A. H. Walker, Instructor in Floriculture.

W. E. Whitehead, M.Sc., Lecturer in Entomology.

C. L. Wrenshall, Ph.D., Assistant Professor of Chemistry.

SCHOOL OF HOUSEHOLD SCIENCE

Director:—Margaret S. McCready, B.A., (Toronto).

Martha Britt, B.S., Lecturer in Textiles and Clothing.

Talitha A. Hanke, B.S., M.A., Lecturer in Household Administration.

Myrtle A. Hayward, B.S., M.A., Lecturer in Educational Methods and Foods and Cookery.

MARION L. PECK, R.N., Instructor in Home Nursing.

RUTH B. RORKE, B.H.S., Lecturer in Foods and Cookery.

ALICE M. STICKWOOD, B.S., M.A., Lecturer in Foods, Dietetics and Institution Administration.

G. GWENDOLYN TAYLOR, B.H.S., Lecturer and Supervisor of Practice House.

SCHOOL FOR TEACHERS

Dean and Director:—SINCLAIR LAIRD, M.A., B.PHIL., Officier de l'Instruction Publique; Professor of Education.

NOVAH E. BROWNRIGG, B.A., Lecturer in French.

H. D. BRUNT, B.A., PH. D., Associate Professor and Head of the Department of English.

EVELYN K. ELDERKIN, B.SC., Lecturer in Art and Interior Decoration.

FRANK K. HANSON, MUS. B., Lecturer in Music.

E. C. IRVINE, M.A., B.PAED., Lecturer in Mathematics.

A. R. B. LOCKHART, M.A., Lecturer in Elementary Education.

VIOLET B. RAMSAY, Lecturer in Primary Methods and Nature Study.

DOROTHY J. SEIVERIGHT, M.A., Lecturer in History and Geography.

ALICE F. SPICER, B.A., B.S. in Phys. Ed., Instructor in Physical Training.

WILLIAM A. STEEVES, B.A., ED.M., Assistant Director of Practice Teaching and Headmaster of Macdonald High School.

EVANGELINE VINCENT, B.S., (Columbia), Kindergarten Teacher and Instructor in Kindergarten Methods.

Macdonald High School (Demonstration and Practice School)

Teachers:-

ELSIE COPPING ARMSTRONG.
LORNE S. BROWN.
HOPE G. CLARKE.
ALICE C. DRESSER.
HARRY GWILLIAM, B.A.
SHIRLEY E. OSBORNE.
MARGARET M. PIRIE.
GRACE E. REVEL, French Specialist.
JESSIE SNADEN.
EVANGELINE VINCENT.

ADMINISTRATIVE OFFICERS

Secretary
T. Fred. Ward

Registrar
A. B. Walsh, B.Sc. (Agr.)

Librarian
Ernest H. Mutton

Medical Officer
R. F. Kelso, M.A., M.B.

Warden of Men's Residence
R. J. Hilton, Ph.D.

Warden of Women's Residence
Mrs. Marion G. Strang

Accountant

Dietitian
Isobel Beach

Resident Nurse, Men's Residence
M. E. Scott, S.R.N.

Resident Nurse, Women's Residence
Marion L. Peck, R.N.

COMMITTEES

ADVISORY COMMITTEE ON AGRICULTURE

The Dean of the Faculty of Agriculture (Chairman).

The Principal.

ROBERT NEWTON, B.S.A., M.Sc., PH.D., D.Sc., F.R.S.C., Ottawa, representing the National Research Council.

J. M. SWAINE, PH.D., F.R.S.C., Ottawa, representing the Dominion Department of Agriculture.

L. PHILIPPE ROY, D.Sc.A., D.V.M., St. Hyacinthe,
GEORGES MAHEUX, Quebec. — *Representing the Quebec Department of Agriculture.*

F. E. M. ROBINSON, M.A., Upper Melbourne, Que.
R. R. NESS, HOWICK, Que. — *Representing the live stock farming industry.*

MORLEY HONEY, Abbotsford, Que., representing the fruit farming industry.

ASSOCIATE COMMITTEE ON PARASITOLOGY

A. G. L. MCNAUGHTON, C.B., C.M.G., D.S.O., M.Sc., LL.D., President, National Research Council, Ottawa.
F. CYRIL JAMES, B.Com., M.A., PH.D., Principal, McGill University. — *Joint Chairmen.*

ROBERT NEWTON, B.S.A., M.Sc., PH.D., D.Sc., F.R.S.C., Director, Division of Biology and Agriculture, National Research Council, Ottawa. — *Vice-Chairman.*

G. S. H. BARTON, C.M.G., B.S.A., D.Sc.A., Deputy Minister of Agriculture, Ottawa.

W. H. BRITTAIN, M.S. in AGR., PH.D., F.R.S.C., Vice-Principal, Macdonald College.

A. E. CAMERON, V.S., Chief Veterinary Inspector, Department of Agriculture, Ottawa.

T. W. M. CAMERON, T.D., B.Sc., M.A., PH.D., D.Sc., M.R.C.V.S. Director of the Institute of Parasitology, Macdonald College.

R. L. CONKLIN, M.Sc., D.V.M., M.D., C.M., Veterinarian and Professor of Animal Pathology, Macdonald College.

GRANT FLEMING, M.C., M.D., D.P.H., F.R.C.P. (C.), Dean of the Medical Faculty, McGill University.

R. T. LEIPER, M.D., D.Sc., F.R.S., Director, Imperial Bureau of Agricultural Parasitology and of the Institute of Agricultural Parasitology, London, England.

LIONEL STEVENSON, B.V.Sc., M.S., Provincial Zoologist, Ontario Department of Agriculture, Ontario Veterinary College, Guelph, Ontario.

J. M. SWAINE, PH.D., F.R.S.C., Director of Research, Dominion Department of Agriculture.

J. M. Veilleux, V.S., Chief, Health of Animals Service, Department of Agriculture, Quebec, Que.

T. FRED. WARD, Secretary, Macdonald College.

E. A. WATSON, V.S., Chief Pathologist, Department of Agriculture, Ottawa.

S. P. EAGLESON, Secretary-Treasurer, National Research Council, Ottawa (Secretary).

LIBRARY COMMITTEE

The Vice-Principal of Macdonald College (Chairman).

The Principal.

The Dean of the School for Teachers.

The Director of the School of Household Science.

Professor J. C. Hemmeon.

Dr. G. R. Lomer.

CALENDAR FOR THE SESSION 1940-41

1940

Wednesday, Sept. 4th	Registration, School for Teachers.
Wednesday, Sept.11th	Registration, Homemaker students.
Monday, Sept. 23rd	Supplemental examinations begin, B.Sc. (Agr.) and B.H.S. students.
	Registration of students taking Horticulture 38, 39.
Friday, Sept. 27th	Registration, B.Sc. (Agr.), B.H.S., and Third Year Diploma Course students.
Monday, Sept. 30th	Lectures begin for B.Sc. (Agr.), B.H.S.. and Third Year Diploma Course students.
Monday, October 7th	Convocation.
.....	Thanksgiving Day. No lectures.
Monday, Nov. 4th	Registration, Diploma Course in Agriculture students.
Monday, Nov. 11th	Remembrance Day. No lectures.
Friday, Dec. 20th	Last day of lectures before Christmas, all Schools.

1941

Friday, January 3rd and Saturday, Jan. 4th	Supplemental examinations, all classes in Agriculture and Household Science.
Monday, January 6th to Friday, Jan. 10th (inc.)	Intermediate and Elementary classes practice teaching, Montreal and elsewhere.
Monday, Jan. 6th	Kindergarten students return for work in practice school, commencing 9.00 a.m.
	Lectures resumed in Agriculture and Household Science, 8.30 a.m.
Sunday, Jan. 12th	Intermediate and Elementary students return to College.
Monday, Jan. 13th	Lectures resumed in School for Teachers, 8.30 a.m.
	First term examinations begin, Agriculture and Household Science.

Monday, Jan. 20th.....Second term begins, for all classes in Agriculture and Household Science, 8.30 a.m.

Monday, Feb. 10th.....Macdonald College Founder's Day.
No afternoon classes.

(*Sir William C. Macdonald, born February 10th, 1831, died June 9th, 1917*).

Saturday, March 1st
to
Tuesday Mar. 4th (inc.)..Short recess. No lectures.

Saturday, March 29th....Second term ends for Diploma Course in Agriculture.

Monday, March 31st
and
Tuesday, April 1st.....Supplemental examinations, Diploma Course in Agriculture.

Monday, April 7th
to
Thurs., April 10th (inc.)..Intermediate and Elementary classes practice teaching, Montreal and elsewhere.

Friday, April 11th
to
Mon., April 14th (inc.)....Easter vacation.

Thursday, April 24th.....Last day of lectures, B.Sc. (Agr.) and B.H.S. courses.

Sunday, April 27th.....Baccalaureate Service, 3.00 p.m.

Monday, April 28th.....Examinations begin, B.Sc. (Agr.) and B.H.S. courses.

Saturday, May 24th.....Victoria Day. University holiday.

Thursday, May 29th.....Convocation.

Sunday, June 1st.....Divine Service, School for Teachers and School of Household Science.

Thursday, June 5th....Closing Exercises, School for Teachers and Homemaker Course. End of session.

ADMISSION

A form of application for admission to the Faculty of Agriculture, including the School of Household Science, will be found at the end of the Announcement. Prospective students must read the details relating to entrance requirements.

Prospective students of the School for Teachers are referred to page 84.

REGISTRATION

Students are required to register before 4 p.m. on the opening day of each session of the Faculty or School in which they have been accepted, and before entering residence to obtain a residence card from the Secretary's Office. Registration at a later date is permitted only to those who obtain the consent of the Dean or Director of the Faculty or School concerned.

Students are not permitted to enter any class until they have registered.

Students arriving before the opening day, or remaining after the close of the session, will be charged at the rate of $3.00 per day, unless such arrival in advance, or delay in leaving, is due to steamship connections.

Upon registering students are required to sign the following declaration:—"I hereby accept and submit myself to the rules and regulations of Macdonald College, and of the Faculty or School thereof in which I am registered, and to any amendments thereto which may be made while I am a student of the College, and I promise to observe the same."

Any student who is unwilling to submit cheerfully to the restrictions of college life, whose conduct does not furnish satisfactory evidence of diligence and earnestness of purpose, or whose work is definitely unsatisfactory, may be required to withdraw from the college.

RESIDENCE

All regular students are required to live in residence.

Rooms must be claimed in person on the opening day.

Students may not invite relatives or friends to stay overnight in the residence without permission from the Warden of Residence and an admission card from the Secretary's Office.

For the admission of visitors to the Dining Room the permission of the Secretary must be obtained and tickets procured in advance from the Office of the Dietitian, Women's Residence.

Students are held responsible for the care of their rooms and of their furnishings.

Students are recommended to mark clearly, in indelible ink, before coming to the College, all articles of wearing apparel, sheets, pillow cases, etc.

Detailed regulations are printed separately and issued to students after arrival.

CONDUCT

The general responsibility for the maintenance of discipline in each Hall of Residence is vested in a Warden, but, through a system of self-government, students are encouraged to accept the greatest possible amount of responsibility in connection with their own affairs. Enforcement of necessary regulations, exaction of disciplinary measures, and regulation of conduct **in and out of residence,** is largely in the hands of a House Committee for each residence, elected by the students from among their own number.

Matters of discipline connected with or arising from the general arrangement for teaching within a Faculty or School are under the jurisdiction of the Dean of the Faculty or Director of the School concerned.

Students may be admonished by a professor or instructor for improper conduct and may be reported to the Dean or Director concerned. If considered advisable, such conduct shall be reported to parents or guardians.

Students found guilty of immoral, dishonest, or other improper conduct, the violation of rules, or wilfully causing damage to persons or property, shall be liable to College discipline, which includes the power of expulsion (subject to the approval of the Senate of McGill University), of suspension from classes or residence (in the case of women students, confinement to residence), of disqualification from competing for honours or prizes, and of levying of fines. Fines may also be imposed or assessments made for damages made by individuals or groups of students.

Bringing liquor into the College is considered a serious breach of discipline, and students who indulge in the use of liquor, or who frequent places where it is sold, may be required to withdraw from the College.

Students are not permitted to bring firearms into their rooms, nor is the use of firearms allowed on the College grounds.

Students are requested not to make application for additional leave either before or after holiday periods, as such leaves can only be granted in case of illness or other exceptional circumstances.

For late registration or for absence from classes on the last day before or the first day following a holiday period, there will be a penalty of $3.00 for each day or part of a day.

During illness students are under the direction of the Medical Officer and may not leave the residence without his express permission.

LEAVE-OF-ABSENCE

Women Students

Women students in residence, in order to avail themselves of the following leaves, must present at the beginning of each session a form signed by parent or guardian, giving general permission or specifying the manner in which leaves may be spent. Blank forms will be sent to all students before the date set for registration.

Except in cases of emergency, telephone messages or telegrams requesting leave-of-absence for women students will on no account receive consideration.

All women students are granted the following privileges:—(1) Freedom of movement, except during class hours, in the town of Ste. Anne de Bellevue, until 7.45 p.m.; (2) A "free day" after lectures on Saturdays, the return to the residence to be not later than 10.00 p.m.; (3) Late leave in Ste. Anne de Bellevue on Saturday, lasting until 11.00 p.m.

In addition, first year students are granted two week-end leaves per month and two late leaves per month. Second year students are permitted two week-end leaves per month and one late leave per week. Third year students have three week-end leaves per month and one late leave per week. Fourth year students have four week-end leaves per month and two late leaves per week. All senior students are permitted to go to Montreal outside of class hours, returning not later than 7.45 p.m. Students are required to register in the "leave book" when going and returning.

On no account shall a student be absent from college without the knowledge and consent of the warden. Absence from college without permission is a serious offence which renders the student liable to instant suspension or dismissal. If prevented from returning after an absence due to illness or other cause, students must advise the Warden immediately, and such students must report at the Warden's office immediately upon their return.

All applications or communications regarding the conduct of women students in residence should be addressed to :

The Warden,

Women's Residence,

Macdonald College, Quebec.

Women students will, if necessary, be excused from lectures and residence on a Saturday to visit a physician, on production of a letter from the physician indicating the hour of appointment.

In cases of urgency, dental appointments are allowed, but students are requested to have dental work attended to before entrance.

Men Students

First Year Diploma and Degree students must obtain permission from the Dean should they wish to have overnight leave-of-absence. All students who expect to be absent from the College should leave some record of their movements.

CONTAGIOUS OR INFECTIVE DISEASES

Students on holiday, or accepted candidates for admission, who become subject to an attack of any contagious or infective disease, or who reside in any dwelling in which any such disease exists, shall be subject to the following quarantine regulations:—

	Quarantine to be required after last exposure to infection.	Earliest date of return or admission to College after an attack.
Scarlet Fever	14 days	Six weeks, and then only if no desquamation or sore throat.
Diphtheria	12 days	Three weeks, if convalescence is complete, provided two negative throat cultures at least twenty-four hours apart have been obtained.
Measles	16 days	Three weeks, if all desquamation and cough have ceased.
Whooping-Cough	21 days	Six weeks from commencement of whooping, if the characteristic spasmodic cough and whooping have ceased. Earlier if all cough has gone.
German Measles	16 days	Two or three weeks, according to the nature of the attack.
Mumps	24 days	Two weeks after the disappearance of all swelling.
Influenza	14 days	Two weeks after disappearance of definite symptoms of influenza.
Typhoid	21 days	Four weeks if all symptoms have disappeared and convalescence is complete.
Small-pox	16 days	Two weeks after the desquamation (which follows the falling of scales) has completely terminated.
Chicken-pox	14 days	Ten days after the desquamation has completely terminated.

In all cases of students, or accepted candidates for admission, suffering from, or coming in contact with those suffering from any contagious or infective disease, a medical certificate shall be required before they are allowed to return to the College.

VISITORS TO STUDENTS

Saturday is visitors' day. In the afternoon, students are free to see their friends and show them around the buildings and grounds. Men visitors to women students are allowed only in the reception rooms in the Women's Residence, and only on specially arranged occasions.

MUSIC

Music finds a place in the recreative and social activities of the College. Concerts, organ recitals, lectures, etc., will be given from time to time. It is suggested that those having violins, cellos, or other orchestral instruments, should bring them.

TUITION AND LABORATORY FEES

FACULTY OF AGRICULTURE

Registration Fee

Students in Agriculture ..... $ 5.00

Tuition

Diploma Course:—

Residents of Canada ..... Free
Students from outside of Canada $50.00

B.Sc. (Agr.) First and Second Years:—

Sons, daughters, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces .. Free
Other residents of Canada ..... $ 50.00 per year
Students from outside of Canada ..... $100.00 per year

B.Sc. (Agr.) Third and Fourth Years:—

Residents of Canada ..... $ 50.00 per year
Students from outside of Canada ..... $100.00 per year

Partial Students:—

	Per Course Per Term	Per Year Min.	Per Year Max.
Diploma Course:—			
Residents of Canada	$ 5.00	$10.00	$25.00
Students from outside of Canada	10.00	20.00	50.00
B.Sc. (Agr.):—			
Residents of Canada	5.00	10.00	50.00
Students from outside of Canada	10.00	20.00	100.00

The maximum fees for students taking courses in both curricula are those applying to the B.Sc. (Agr.) curriculum.

Definitions

1. *Residents of Canada:*—Those whose parents, or who themselves, are *bona fide* rate-payers, or those who have resided continuously in Canada for two years.

2. For purposes of determining fees for tuition, the status of a student at entrance obtains throughout the course for which he registers.

Laboratory Fees

Diploma Course ..... $ 5.00 per year
B.Sc. (Agr.) First and Second Years ..... 10.00 per year
B.Sc. (Agr.) Third and Fourth Years ..... 15.00 per year

Partial Students:—

	Per Course Per Term	Per Year Min.	Max.
Diploma Course	$5.00	$10.00	$10.00
B.Sc. (Agr.) First and Second Years	5.00	10.00	10.00
B.Sc. (Agr.) Third and Fourth Years	5.00	10.00	15.00

The maximum fees for students taking courses in both curricula are those applying to the B.Sc. (Agr.) curriculum.

Supplemental Examination Fees

Regular Supplemental Examinations, for each examination period (morning or afternoon) $2.00
Special Supplemental Examination $5.00

Other Fees

Conferring Degree *in absentia* $10.00
Official transcript of student's record $1.00

SCHOOL OF HOUSEHOLD SCIENCE

Registration Fee

Students in Household Science $5.00

Tuition

B.H.S. Degree Course:—
Residents of Canada ..... $100.00 per year
Students from outside of Canada ..... $125.00 per year
Homemaker Course:—
Daughters, etc., of farmers of the Province of Quebec ..... Free
Other residents of Canada ..... $150.00 per year
Students from outside of Canada ..... $175.00 per year
Partial Students:—
Registration fee $5.00
Tuition ..... $5.00 per course per term

Laboratory Fees

B.H.S. Degree Course $15.00
Homemaker Course $10.00
Partial Students ..... Minimum $10.00

Supplemental Examination Fees

Regular Supplemental Examinations, for each examination period (morning or afternoon) $2.00
Special Supplemental Examination $5.00

Other Fees

Conferring Degree *in absentia* $10.00
Official transcript of student's record $1.00

SCHOOL FOR TEACHERS

Tuition

All Students ..... Free

Laboratory Fees

All Students ..... $10.00 per year

OTHER EXPENSES

Caution Money

Every student must make, at the time of registration, a cash deposit of $5.00 with the Secretary of the College, to cover fines, breakages, etc.; and as soon as any student's deposit is exhausted he or she will be required forthwith to make an additional deposit of the same amount.

Student Activities

Students entering the College are reminded that there are various student activities, such as the athletic associations, literary societies, class societies, etc., which they are expected to join. These affairs are in the hands of the students themselves, and the expenses of these organizations amount, for the session, as follows:—For

	Men	Women
Students of courses one year and longer	$11.35	$7.50
Diploma Course in Agriculture	$ 9.55	
Graduate Faculty Students	$4.00	$4.00

At the request of the students themselves, the above fees will be collected from all students for the support of the athletic associations, literary societies, skating rink, etc.

Living Expenses

The charges for board and lodging are:—

For each occupant of a double room (and, in the case of a few large rooms accommodating three or four) with single beds, per week: $7.50.

There are a few single rooms in each residence; occupants of these are charged $1.50 per week extra.

If students, on account of the large number of applications received, cannot be accommodated in the College Residence, board and lodging may possibly be obtained for them in the town of Ste. Anne de Bellevue.

A laundry fee of $1.00 for the session is payable by all women students for use of the laundry provided in the Women's Building, which will be open at certain hours daily.

Students are required to send their personal washing to the College Laundry, except such small things as may be done by the women students themselves. Moderate prices will be charged. Printed laundry lists will be furnished, two copies of which, properly filled out, must accompany each parcel.

Illness Charges

Medical and nursing attendance, major operations and illness excepted, will be provided to all students while in residence at the College. For this acharge per student for the session will be made as follows:—

Diploma Course in Agriculture..... $3.50
All other students..... $4.00

Students will pay the cost of medicines as furnished.

When it is necessary to remove a student to a city hospital, all charges, including medical attendance, must be borne by the student or his guardian.

A charge of 25 cents extra per meal will be made for all meals served in a student's room or outside the dining room, such meals being provided only when approved by the Warden.

Books

Books, etc., in connection with the various courses may be purchased at the College Book Shop. In order to reduce the expense of textbooks as far as possible to individual students, an arrangement has been made whereby students of the School for Teachers will pay to the Secretary the sum of $2.00 per session for the use of books in certain departmental libraries; this will save students the necessity of purchasing individual copies of expensive books.

Household Science Trips

Students in Household Science are taken to visit various institutions in Montreal, in connection with their work, from time to time during their course, more especially in the senior years. Each student is responsible for her own expenses, which are kept to the minimum amount.

Supplies

Material and supplies required for classes in Textiles and Clothing are provided by the students concerned and purchased at the direction of the instructor.

Room Furnishings

Bedrooms are furnished with closets, beds, mattresses, blankets, pillows and rugs, and the necessary furniture.

Each student is expected to provide his or her own laundry bag, toilet soap, drinking glass: four sheets, about 90 inches long, 60 inches wide; two pillow covers, 34 inches long, 20 inches wide; hand towels and bath towels.

Each room is provided with picture moulding. Students are permitted to bring rugs, pictures, etc., but are not allowed to drive tacks or nails into

walls or woodwork, or to paste pictures on the walls.

For the benefit of students wishing to provide covers, the following measurements are given:—

Table top:—48 inches long, 32 inches wide; bureau top:— 42 inches long, 22 inches wide; washstand top:—36 inches long, 18 inches wide.

Women students are required to provide sash curtains and curtain rods for the windows in their rooms. Material for the curtains, which costs 25c. per yard, as well as the curtain rods, must be purchased at the College Book Shop.

Outfit Requirements for Women Students

School of Household Science:—

B.H.S. AND HOMEMAKER STUDENTS.

Dresses.—Two dresses are necessary. The material required is from 4 to 4½ yards for each uniform. It is 32 inches wide, 65 cents per yard, and is obtained from the Secretary on receipt of amount covering quantity required. The material must be shrunk before being made up and, to allow for further possible shrinkage, skirts should be made with a six-inch hem. Skirt should be of reasonable length according to present fashions. Sleeve should be just above the bend of elbow on the inside.

Collars.—Special white collars are to be worn with dress and fastened by a bar pin, both of which should be obtained at the College Book Shop at 35 cents and $1.00 respectively. A collar must be obtained with the uniform material and be used in determining the opening at the neck of the blouse, which should be cut only low enough to permit of the collar being fastened in front by the bar pin. In addition to the pin the only jewellery permitted to be worn with the uniform is a watch and a class pin or class ring.

Aprons.—Four aprons of white long cloth or linen, coming to within two inches of the bottom of the dress, are necessary for work at cookery classes. One coloured apron is required, the material to be the same as the dress. Material required — 3½ to 4 yards.

Aprons should be made from a standard nurse's apron pattern, with gored skirt and bib top.

Pattern for the dress will be enclosed with dress material for thirty-five cents additional. *Dresses must be made according to this pattern.* Dress pattern comes in sizes 32-40. *Be sure to specify size required when ordering.*

Towels.—Four small white huckaback hand towels, one-half yard long, with a button-hole in one corner to button to waistband.

Potholders.—Two, each six inches square, covered with dress material and a bias binding of same, with a white tape to button to waistband.

Aprons, towels and potholders are not required by B.H.S. students until they enter the second year.

All the above pieces must be marked clearly in indelible ink with student's name.

Shoes.—White oxfords with low rubber heels are required. Stockings must also be white.

Workbasket.—Equipped with scissors, tape line, thimble, etc., for clothing classes.

The uniform is worn at all classes, and prospective students are requested to note carefully the regulations with reference to it. If in doubt in regard to any detail, write to the Director of the School for information.

Candidates for admission should await notice from the College of their acceptance before ordering uniform material.

School for Teachers:—Two uniforms are necessary. The material required is from 4½ to 5 yards for each uniform. It is 32 inches wide, 65 cents per yard, and is obtained from the Secretary on receipt of amount covering quantity required. The material must be shrunk before being made up and, to allow for further possible shrinkage, skirts should be made with a six-inch hem. Skirt should be of reasonable length according to present fashions. Sleeves should be long. *Pattern* for dress will be enclosed with dress material for 35 cents additional. *Dresses must be made according to this pattern.* Dress patterns come in sizes 32—40. *Be sure to specify size required when ordering.*

A special white collar is worn with the dress. This must be obtained with the uniform material and be used in determining the opening at the neck of the blouse, which should be cut only low enough to permit of the collar being fastened in front by a bar pin. The price of the collar is 35 cents. In addition to the bar pin, the only jewellery permitted to be worn with the uniform is a watch and a class pin or ring.

Comfortable shoes with low rubber heels are required, and may be either black or brown. Stockings must correspond in colour with shoes worn.

The uniform is worn at all classes, and prospective students are requested to note carefully the regulations with reference to it. If in doubt in regard to any detail, write to the Dean for information.

A smock of printed material (cretonne) is useful when teaching certain subjects and when engaged in practical work.

Candidates for admission should await notice from the college of their acceptance before ordering uniform material.

Gymnastic Costume

Women students taking work in the gymnasium will be required to wear the regulation gymnastic costume consisting of a tunic, shirt waist, knickers, black running shoes, and *extra long* non-transparent black stockings. Tunics should be rented from the College Book Shop for the session; shirt waist, knickers, shoes, and stockings may be purchased from

the Book Shop for $1.50, 60 cents, $1.25, and $1.00 respectively. Round garters must *not* be worn with gymnastic costume. Athletic girdles may be purchased from the Book Shop for $1.10.

Students wishing to swim must provide themselves with woollen bathing suits of guaranteed fast colour.

PAYMENTS

All fees are payable in advance. There is no refund of fees to students who leave for any cause other than personal illness, nor to those who are dismissed for neglect of work or violation of the rules.

Payments for board must be made from time to time throughout each term, at the beginning of each period of four weeks, *strictly in advance.*

Payments in advance may be made for a longer period than four weeks.

No allowance is made for absence during temporary suspension from residence, nor for absence of less than one week for any cause other than personal illness. No extra allowance will be made to students who have obtained pre-holiday leave.

Students who fail at any time to make payment for board promptly in advance *will be charged $2.00 extra* for each time such failure occurs.

A list of the registered students whose accounts with the Secretary are in arrears will be sent to the Dean or Director of the Faculty or School concerned, on receipt of which the Dean, or Director, shall cause their names to be struck from the registers of attendance, and such students cannot be readmitted to any class or residence except on presentation of a special notice signed by the Secretary, certifying to the settlement of such account.

The Secretary's Office will be open to receive payments from 9 a.m. to 4.30 p.m. daily—except Saturday, on which day the hours will be from 9 a.m. to 12 noon.

All cheques, money orders, etc., should be drawn to the order of "The Secretary, Macdonald College, Que.," to whom all remittances, orders for dress material, etc., must be directed.

PROVINCIAL GOVERNMENT GRANT

The Department of Agriculture of the Province of Quebec grants to each graduate and undergraduate student in Agriculture who belongs to the Province of Quebec, and is registered for regular courses, $9.00 per month of attendance in studying according to the time table in the Faculty of Agriculture, Macdonald College, to apply on board and lodging. This amount will be paid in two instalments, in January and in May.

McGILL UNIVERSITY LIBRARY

PAYMENTS AT ENTRANCE—MEN

	Registration Fee	Tuition per Session	Laboratory Fee	Caution Money Deposit	4 Weeks' Board in Advance (a)	Medical Charge	Student Activities	School for Teachers' Textbooks Reduction (Page 26)	TOTAL
FACULTY OF AGRICULTURE (b):—									
Diploma Course First and Second Years:—									
Residents of Canada	$5.00	Free	$5.00	$5.00	$30.00	$3.50	$9.55	.....	$58.05
Students from outside of Canada	5.00	$50.00	5.00	5.00	30.00	3.50	9.55	.....	108.05
B.Sc. (Agr.) First and Second Years:—									
Sons, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces	5.00	Free	10.00	5.00	30.00	4.00	11.35	.....	65.35
Other residents of Canada	5.00	50.00	10.00	5.00	30.00	4.00	11.35	.....	115.35
Students from outside of Canada	5.00	100.00	10.00	5.00	30.00	4.00	11.35	.....	165.35
B.Sc. (Agr.) Third and Fourth Years:—									
Residents of Canada	5.00	50.00	15.00	5.00	30.00	4.00	11.35	.....	120.35
Students from outside of Canada	5.00	100.00	15.00	5.00	30.00	4.00	11.35	.....	170.35
Graduate Students	.....	.....	.....	.....	30.00	4.00	4.00	.....	38.00(c)
SCHOOL FOR TEACHERS:—									
All Classes	.....	Free	10.00	5.00	30.00	4.00	11.35	2.00	62.35

(a) Occupants of single rooms are charged $1.50 extra per week.
(b) Students in Agriculture of the Province of Quebec receive, at the end of each term, a grant from the Provincial Government of $9.00 per month of attendance on account of board. See page 29.
(c) For further fees see Announcement of the Faculty of Graduate Studies and Research, McGill University, Montreal, Que.

PAYMENTS AT ENTRANCE—WOMEN

	Registration Fee	Tuition per Session	Laboratory Fee	Caution Money Deposit	4 Weeks' Board in Advance (a)	Medical Charge	Laundry Fee	Student Activities	School for Teachers' Textbooks Reduction (Page 26)	TOTAL
FACULTY OF AGRICULTURE (b):—										
B.Sc. (Agr.) First and Second Years:—										
Daughters, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces	$5.00	Free	$10.00	$5.00	$30.00	$4.00	$1.00	$7.50	.....	$62.50
Other residents of Canada	5.00	$50.00	10.00	5.00	30.00	4.00	1.00	7.50	.....	112.50
Students from outside of Canada	5.00	100.00	10.00	5.00	30.00	4.00	1.00	7.50	.....	162.50
B.Sc. (Agr.) Third and Fourth Years:—										
Residents of Canada	5.00	50.00	15.00	5.00	30.00	4.00	1.00	7.50	.....	117.50
Students from outside of Canada	5.00	100.00	15.00	5.00	30.00	4.00	1.00	7.50	.....	167.50
SCHOOL OF HOUSEHOLD SCIENCE:—										
B.H.S. Degree Course:—										
Residents of Canada	5.00	100.00	15.00	5.00	30.00	4.00	1.00	7.50	.....	167.50
Students from outside of Canada	5.00	125.00	15.00	5.00	30.00	4.00	1.00	7.50	.....	192.50
Homemaker Course:—										
Daughters, etc., of farmers of the Province of Quebec	5.00	Free	10.00	5.00	30.00	4.00	1.00	7.50	.....	62.50
Other residents of Canada	5.00	150.00	10.00	5.00	30 00	4.00	1.00	7.50	.....	212.50
Students from outside of Canada	5.00	175.00	10.00	5.00	30.00	4.00	1.00	7.50	.....	237.50
SCHOOL FOR TEACHERS:—										
All Classes	.....	Free	10.00	5.00	30.00	4.00	1.00	7.50	2.00	59.50

(a) Occupants of single rooms are charged $1.50 extra per week.

(b) Students in Agriculture of the Province of Quebec receive, at the end of each term, a grant from the Provincial Government of $9.00 per month of attendance on account of board. See page 29.

FACULTY OF AGRICULTURE

The following courses of study are offered in the Faculty of Agriculture:—

I. Courses in Agriculture:—

(a) Partial Courses (page 33).
(b) A two-year Diploma Course (page 33).
(c) Advanced Diploma Course (page 39).
(d) A four-year Course leading to the Degree of Bachelor of Science in Agriculture, (B.Sc. [Agr.]) (page 41).
(e) Graduate Courses in the Faculty of Graduate Studies and Research, McGill University (page 63).

II. Courses in Household Science:—

(f) Partial Courses (page 73).
(g) A one-year (Homemaker) Course (page 73).
(h) A four-year Course leading to the Degree of Bachelor of Household Science (B.H.S.) (page 76).

ENTRANCE REQUIREMENTS

General

All candidates for admission:—

1. Except where otherwise provided, must have passed their seventeenth birthday.

2. Must produce satisfactory evidence as to moral character.

3. Must produce medical certificate of physical health. A certificate of vaccination must be attached as follows:—(a) Successful vaccination within seven years; or, (b) Immunity to vaccine after two recent unsuccessful vaccinations—such certificate of immunity to be good for five years from date.

When the number of women candidates is in excess of the accommodation, preference will be given to those from the rural districts of Quebec, the Maritime Provinces, and Eastern Ontario.

NOTE:—Form of application for admission will be found at the end of the announcement.

Deposit with Application

A deposit of $5.00 should accompany each application for admission to the School of Household Science; this deposit, if the application is accepted, will be applied on account of payments due at entrance. In the event of the non-acceptance of such application, the deposit will be re-

turned. Applicants failing to register will forfeit the amount deposited, unless the cause shown is considered adequate by the College authorities.

ATTENDANCE

Punctual attendance at all classes is expected of all students. Absence from classes can be excused only by necessity or illness, of which proof must be given to the Dean or Director of the school concerned. The College has the power to refuse examinations to those students who persist in absenting themselves from classes without permission.

I. COURSES IN AGRICULTURE

(a) PARTIAL COURSES

Partial courses may be taken as follows:—

1. In one or more courses of the B.Sc. (Agr.) curriculum by matriculated students who shall be designated partial students of the Degree Course.

2. In one or more courses of the Diploma Course curriculum by students who shall be designated partial students of the Diploma Course.

3. At the option of the Dean and the departments concerned, partial students of the Diploma Course may be permitted to follow certain courses of the Degree Course curriculum, though not for credit towards a degree. Such students shall pay the tuition fees applying to courses of the Degree Course curriculum.

The main purpose of the Partial Course is to enable students from other faculties or other universities to integrate their previous courses with those at Macdonald College. No student proceeding to a degree will be permitted to register for more than one session as a partial student. Applications in all cases must be approved by the Dean of the Faculty of Agriculture, and registration must be made in the regular way before students enter upon their work.

For regulations regarding fees applicable, see page 23.

(b) DIPLOMA COURSE

This is a two year course of five months' duration in each year commencing about November 1st, and finishing about March 31st. It affords a special opportunity of spending one or two winter seasons in studying Agriculture, and the time is selected with a view to interfering as little as possible with farm operations. It is intensely practical in character and is designed with the following objects in mind;—To give the largest amount of information and training in practical agriculture in the shortest possible time; to equip the student for solving his future problems; to awaken him to the many opportunities on the farm; to give him an inspiration in his agricultural work; and to enable him to fill a more useful place in rural citizenship.

The work of the first year is taken by all students in common; in the second year a student may choose subjects that have to do either with dairy farming or fruit farming. A diploma will be granted to each student who completes the two years' work successfully.

Diploma Course Entrance

1. For General Requirements see page 32.

2. All candidates for admission to the Diploma Course must have passed their sixteenth birthday and will be required to read and write the English language acceptably, to be proficient in the use of arithmetic and, preferably, to have had farm experience.

Diploma Course Syllabus

(See page 64).

DESCRIPTION OF COURSES

AGRICULTURAL ENGINEERING

1—Farm Machinery. A study of the gas engine as applied to stationary purposes, the automobile and the tractor. (b) Implements and Machinery. The use and adjustments of tillage and harvesting machinery.
1st Yr.:—1 lect., 3 labs., per wk., 1st term. Mr. Kalbfleisch.

2—Farm Construction. (a) Farmstead planning including the arrangement of the various buildings, the planning of houses and barns; fences and fencing. (b) Carpentry and concrete work.
1st Yr.:—1 lect., 2 labs., per wk., 2nd term. Professor Heimpel.

6—Land Drainage. The soil water table and its control; surface drains and underdrainage. (b) Farm Sanitation. Water supplies and water systems, methods of sewage disposal.
2nd Yr.:—2 lects., 2 labs., per wk., 1st term. Professor Heimpel.

7—Farm Shopwork. Blacksmithing, rope splicing, soldering and farm plumbing.
2nd Yr.:—1 lect., 2 labs., per wk., 2nd term. Mr. Kalbfleisch.

AGRICULTURE

1—A general course on Agriculture designed to give the student a proper conception of farming as an occupation and an appreciation of some important considerations in the selection and operation of farms.
1st Yr.:—1 lect., per wk., 2 terms. Professor Hamilton.

AGRONOMY

1—Soils and Soil Management. Classes of soil, tillage, rotation, manuring, fertilizers, liming, drainage, etc., will be studied with a view to

enabling the student to manage the soil on his own farm to best advantage.
1st Yr.:—3 lects., per wk., 1st term. Professor Lods.

3—Hay and Pasture Crops. These crops will be studied from the standpoints of their importance, varieties, culture and management.
1st Yr.:—2 lects., 1 lab., per wk., 2nd term. Mr. Bird.

5—Corn and Root Crops. As with Hay and Pasture Crops.
1st Yr.:—3 lects., per wk., 2nd term. Professor Raymond.

7—Crop Management. Factors determining the crops to grow, cropping schemes for typical situations in Eastern Canada. Fertilizers and seed will be given further attention in this course.
2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Summerby.

9—Grain Crops. As with Hay and Pasture Crops.
2nd Yr.:—3 lects., 1 lab., per wk., 1st term. Professor Lods.

ANIMAL HUSBANDRY

1—Farm Live Stock. Commercial types and classes of farm stock; their care and management; feeding; breeding; and judging.
1st Yr.:—3 lects., 2 labs., per wk., 1st term; 2 lects., 2 labs., per wk., 2nd term. Professors Ness and Hamilton.

6—Farm Live Stock. A continuation of course 1, but dealing particularly with purebred stock.
2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professors Ness and Hamilton.

7—Live Stock Breeding. In this course the more important basic principles underlying breeding practice are considered. Selection of breeding animals is studied in the light of what is known in regard to reproduction, transmission of characters, heredity, and environment.
2nd Yr.:—2 lects., per wk., 2nd term. Professor Crampton.

8—Live Stock Feeding. This course is primarily a study of the common feeding stuffs used in the rations of farm live stock. Feeding practice is considered in relation to the principles of animal nutrition, and practice is given in the compounding of satisfactory rations.
2nd Yr.:—2 lects., per wk., 1st term. Professor Crampton.

ANIMAL NURSING

6—The course will cover situations usually encountered by farm managers and herdsmen.
2nd Yr.:—2 lects., 1 lab., per wk., 2nd term.

BACTERIOLOGY

1—Bacteria in some of their relations to Agriculture.
1st Yr.:—1 lect., 1 lab., per wk., 2nd term. Mr. McMaster.

BOTANY

1—Agricultural Botany. The course consists of a study of the fundamentals of growth and reproduction processes in plants. The botany of economic plants will be studied as much as possible and consideration given to weeds and weed seeds and their control.
1st Yr.:—2 lects., 1 lab., per wk., 1st term.

CHEMISTRY

1—Elementary Chemistry, with applications to soils, fertilizers, feeding stuffs, and insecticides and fungicides.
1st Yr.:—2 lects., 1 lab., per wk., 1st term.

DAIRYING

6—Care of milk, separating, testing, buttermaking, and the marketing of dairy products.

Quebec Provincial examinations will be set in milk and cream testing and milk analysis. Students passing these examinations will receive a provincial Milk Tester's certificate.
2nd Yr.:—2 lects., 2 labs., per wk., 2nd term. Mr. Cunningham.

ECONOMICS

7—Principles of Marketing and Cooperation. Marketing methods, agencies and services. Cycles in production and prices. Collective bargaining. Cooperation and the pooling of farm products.
2nd Yr:—3 lects., 1 lab., per wk., 1st term. Professor Lattimer.

8—Farm Organization and Management. Specialization in farming. Adaptability of types of farming to various localities. The size of farms. Land values and farm wages.
2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Lattimer.

ENGLISH

The students will be divided into a Senior and a Junior Group according to their attainments in English Speech and Literature:—

2—
1st Yr.:—3 lects., per wk., 2 terms.

7—
2nd Yr.:—1 lect., 1 lab., per wk., 2 terms.

ENTOMOLOGY

3—An elementary treatment of the structure, habits, classification and control of insects.
1st Yr. :—2 lects., 1 lab., per wk., 2nd term. Professor Brittain.

HORTICULTURE

4—General Horticulture. A course dealing with the principles of farm horticulture, including the home garden, the propagation of plants. seed sowing, the improvement of the home surroundings, the farm orchard and horticultural cash crops for the farmer. such as potatoes, canning crops and some small fruits.
1st Yr. :—1 lect., 1 lab., per wk., 2 terms. Professor Murray and Staff.

6—Vegetable Gardening. The production of vegetables with reference to climate, soils, fertilizers, seeds, spraying, harvesting, grading, packing, storage, marketing and canning, with practical instruction in the greenhouse and laboratory throughout the course.
2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Murray.

7—Ornamental Gardening. Foundation planting; choice and care of ornamental trees, shrubs, vines, and flowers for the home grounds, and the making and care of lawns. Some instruction will be given in commercial floriculture.
2nd Yr. :—2 lects., 1 lab., per wk., 1st term. Mr. Walker.

8—Fruit Growing. A practical study of orchard and small fruit production, including propagation, soils, fertilizers, culture, and other related phases, including spraying, harvesting, marketing, and storage. One lecture per week during the second term will be used for complementary work on spray machinery, cold storage, by-products, etc.
2nd Yr.:—2 lects., 2 labs., per wk., 1st term,
3 lects., 2 labs., per wk., 2nd term. Dr. Hilton.

MATHEMATICS

1—A review of elementary arithmetic; decimals, percentage, ratio and proportion, mensuration and farm business accounting.
1st Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Heimpel. (Agricultural Engineering Department).

6—A continuation of course 1 with particular attention to areas and volumes as applied to contents of tanks, bins, hay stacks, silos and barn lofts.
2nd Yr.—2 lects., per wk., 1st term. Professor Heimpel. (Agricultural Engineering Department).

PHYSICS

6.—An elementary course dealing with the fundamental principles of Physics and their application in agricultural practice.
2nd Yr.:—1 lect., 2 labs., per wk., 1st term.

PLANT PATHOLOGY

6—Plant Diseases. Studies of important plant diseases in horticultural crops, including losses, symptoms, cause and spread.
2nd Yr.:—(Fruit Farming Group):—2 lects., 1 lab., per wk., 2nd term.

POULTRY HUSBANDRY

1—Productive Poultry Husbandry. The elements of poultry production and marketing applicable to general farm use. A study is made of the various breeds of chickens, ducks, geese, and turkeys and their general management through a complete production cycle.

1st Yr.:—2 lects., 1 lab., per wk., 2 terms. Mr. Nikolaiczuk.

6—Advanced Poultry Problems. The economic significance of the various factors influencing production returns on the basis of poultry management.
2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Maw.

7—Poultry Breeding and Marketing Improvement. A study of the basic factors in poultry breeding and product marketing in relation to the improvement policies of the industry. Elective.
2nd Yr.:—2 lects., 1 lab., per wk., 1st term. Professor Maw.

PROJECT

6—Second year students are required to submit a project in the form of an essay and a questionnaire to be handed in not later than March 15th.

The project work shall comprise the outlining of a farm enterprise together with the procedure to be followed in establishing and developing it. The farm may be owned or rented. Particulars must include a financial forecast, in detail, of yearly expenditures and returns for a period of five years as well as an estimate of the money required over and above what the farm may return.

Questionnaire forms having to do with finding farm facts will be distributed before the close of the first year. They must be filled in during the summer and submitted as a part of the project.

The project will rank as a subject with an allowance of 100 marks and will become the property of the College.
2nd Yr.:—The equivalent of 2 lects., per wk., 2 terms.

Supervising Committee:—Professor Hamilton (Chairman), Professors Lattimer, Heimpel and Lods.

Diploma Course Examinations

All students will be required to give satisfactory evidence of mastery of the material of lecture and laboratory. Examinations will be held at the end of the first term in all courses given and at the end of each course. The examiner will pass in to the Registrar the final mark giving the standing of each student in all the work of the course.

Students who obtain 75 per cent and over are placed in the first class; those who obtain 60 and less than 75 per cent, in the second class; and those who obtain 40 and less than 60 per cent, in the third class.

For purposes of evaluation, a full course shall be two lectures and two laboratory periods per week for one term or its equivalent and shall be rated at 100 marks. One lecture equals one laboratory period. More or less than full courses shall be rated proportionately. Students conditioned

in papers of an aggregate value of 250 marks or less will be required to write supplemental examinations in those subjects. Students conditioned in papers having an aggregate value of more than 250 marks will be considered as having failed in the year's work.

Students who fail in the first year of the Diploma Course in Agriculture will not be permitted to repeat the year, except by special action of the Faculty of Agriculture.

A student who is allowed to repeat a year may, by special permission, be exempted from attending lectures and passing examinations in one or more subjects in which he has already passed creditably and be required to take one or more subjects of the following year in his course. The choice of subjects must involve no conflict of hours in the time table.

For absences from classes, see "Attendance", page 33.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. See page 33.

Regular Supplemental Examinations. A regular supplemental examination is a first supplemental examination in a subject.

Regular supplemental examinations will be held immediately preceding the opening of lectures in January, on a date or dates to be fixed; and following the sessional examinations in the spring.

A first supplemental examination in a subject, not involving the preparation of a special paper, may also be arranged in conjunction with the regular sessional examinations.

Special Supplemental Examinations. Supplemental examinations taken at other times than those appointed, and supplemental examinations taken subsequent to a first supplemental examination, will be considered as special supplementals and must be arranged with the Registrar.

Every candidate for either a regular or a special supplemental examination is required to fill out an application form for such examination and to return it with the necessary fee (for which see page 24) at least three weeks before the examination begins. Application forms may be obtained from the Registrar.

No student writing a supplemental examination in a subject shall be granted marks higher than the required pass mark—i.e., 40%.

(c) ADVANCED DIPLOMA COURSE

Students who obtain at least high second-class standing in each year of the Diploma Course, may continue for a further year. For admission to the third year the candidate's application and schedule of courses and any revision thereof must receive the approval of the Faculty.

The course is intended for those who do not desire a degree but are anxious to extend their educational equipment beyond the two year course

and to train themselves for the responsibilities of rural leadership. It is designed to permit those of good ability and some maturity to pursue a course where more emphasis is placed upon private study and individual effort than is possible during the first two years, when lectures and classroom exercises consume the bulk of the student's time.

During the session, which, for the Advanced Diploma Course, will date from the opening of the Degree Course, the student's time will be divided between assigned studies, projects, and departmental work. His curriculum will include reading, preparing reports, writing essays, and course work.

The course is not rigidly prescribed and is intended to be of a broad and general character. Nevertheless, it provides opportunity for the student to pay special attention to those phases of agriculture in which he is particularly interested. The courses taken will be selected from those listed below, but the student may be permitted to attend others which may be of value to him. The courses will be selected in consultation with the Chairman of the Diploma Course Committee.

At the end of his course of study, the student will submit himself to examinations in the individual courses taken when required, and to a series of comprehensive examinations in practical and scientific agriculture, written and oral, set by a Board of Examiners appointed for the purpose.

An Advanced Diploma in Agriculture may be awarded at the completion of the year's work or may be withheld until the student has demonstrated the necessary capacity in the work undertaken.

Only a limited number of students will be accepted each year.

Courses may be chosen from the following list, supplemented, if desired, by others approved by the Faculty:—

Agricultural Engineering:—31, 32, 33, and 34.
Agronomy:—31, 32, 33, 36, and 41.
Animal Husbandry:—30, 34, 35, 41, 45 and 46.
Botany:—30.
Comparative Physiology and Pathology:—30, 31, and 32.
Economics:—*20, 30, 31, and 32.
English:—*14, *24, and 35.
Entomology:—34.
Horticulture:—31, 33, 38, 39, and 40.
Plant Pathology:—31.
Poultry Husbandry:—31, 33, 35, and 38.

*The courses marked with an asterisk are required and examinations must be taken in them.

(d) B.Sc. (Agr.) COURSE

This is a four-year course leading to the degree of Bachelor of Science in Agriculture; the degree when abbreviated shall be designated B.Sc. (Agr.).

The curriculum is organized with equal standards and similar plans to those of the other faculties of the University. During the first two years the work undertaken is common to all students and is limited to subjects which are basic in the study of all branches of agriculture. In the third and fourth years the student may specialize in a single branch of agriculture, or he may choose a combination of related subjects. In either case the outline of work must offer a comprehensive training in the major work and cognate subjects.

Entrance

1. For General Requirements see page 32.

2. All candidates for admission to the four year course leading to the B.Sc. (Agr.) degree shall produce one of the certificates indicated below. With the modifications noted, this will apply also to all candidates for admission to the B.H.S. course.

a. Of having passed the Junior Matriculation Examination for entrance to the Faculty of Agriculture, which is held in June at McGill University and at other centres, and in September at McGill University only. All enquiries relating to such examination should be addressed to the Registrar, McGill University, Montreal, Que.

Every candidate must make application on a form which may be obtained from the Registrar's office, McGill University, Montreal. This application, with the proper fee, must reach the Registrar's office before 20th May for the June examination and before 20th August for the September examination. After these dates applications may be accepted for the Montreal centre only. A special late fee of $1.00 is charged for such applications. The fee is $1.00 per paper with a minimum fee of $2.00 and a maximum fee of $10.00.

For the convenience of candidates in Great Britain who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each June. Full information regarding dates, fees, etc., may be obtained from the Honorary Representative of the University, W. A. Bulkeley-Evans, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C. 4.

Subjects of Junior Matriculation Examination:

Group	No. of Papers	
1.	2	English.
2.	1	History.
3.	2	Latin *or* French *or* German *or* Spanish (French preferred)

4. 2 Elementary Mathematics.
5. 1 Physics or Chemistry.

Either

6. 2 Latin or French or German or Spanish (if not already chosen);

Or

Any two of the following papers not already chosen:—

a. Intermediate Algebra;
b. Intermediate Geometry and Trigonometry;
c. *Botany;
*Biology;
d. Chemistry;
e. Physics;
f. †Drawing;
g. Geography;
h. Music (B.H.S. candidates only. Music and Drawing may not both be chosen).

Total 10 papers.

An examination in Zoology of other reputable universities or recognized public examining boards will be accepted as an alternative to Botany or Biology.

In order to pass, a candidate must obtain an average of 60 per cent in the ten required papers of the examination, and not less than 40 per cent in any paper. Details of the syllabi are given in the General Announcement, which may be obtained from the Registrar, McGill University, Montreal, Que.

Candidates for admission to the B.Sc. (Agr.) or B.H.S. Degree Course are expected to have complete matriculation, but may be permitted to enter as conditioned undergraduates provided they have not failed in papers of an aggregate of more than 200 marks.

Except by special action of the Faculty no student will be permitted to carry a matriculation condition into the second year.

b. The following certificates will be accepted in lieu of the Junior Matriculation examination for admission to the Faculty of Agriculture, provided that pass standing, according to the standards of the various examining bodies, is shown thereon in the subjects required in "a" above:

*Botany and Biology may not both be chosen.

†The High School Leaving Examination in Household Science will be accepted as an alternative to Music or Drawing for admission to the B.H.S. Course, provided the candidate secures an average of 67% in the nine other required papers.

Province of Quebec:—
The High School Leaving Certificate.
Province of Ontario:—
Middle School Certificate.
Province of New Brunswick:—
Junior Matriculation or High School Leaving Certificate.
Province of Nova Scotia:—
Grade XI Certificate.
Province of Prince Edward Island:—
Second Year Certificate of Prince of Wales College.
Province of British Columbia:—
Junior Matriculation.
Province of Manitoba:—
Grade XI Certificate.
Provinces of Alberta and Saskatchewan:—
Grade XI Certificate.

Newfoundland:—
Junior Matriculation.

United States:—
Certificates granted by the College Entrance Examination Board.

c. Great Britain:—

The School Certificate (with four or five credits) of:—
The Oxford and Cambridge Schools Examination Board.
The Oxford Local Examination Board.
The Cambridge Local Examination Board.
The Northern Universities Joint Examination Board.
The Central Welsh Board.
The University of Durham.
Bristol University.
The University of London.
The University of London Matriculation.
The Certificate of Fitness granted by the Scottish Universities Entrance Board.

d. Miscellaneous:—

Other certificates, such as those issued by reputable universities or recognized public examining boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

Intending students who wish to enter by certificate should under no circumstances come to the College without having obtained from the Registrar a statement of the value of the certificates they hold.

Students with incomplete requirements may obtain standing in subjects included in the McGill Matriculation by writing McGill examinations.

3.—*Farm Experience.* All candidates for admission to the course leading to the B.Sc. (Agr.) degree shall, before entering the second year, produce satisfactory evidence of having had a season's experience of at least five months duration on an approved farm. Students who are placed on farms through the College service will be required to submit a satisfactory report of their experience. NOTE:—College and experimental farms, while affording excellent opportunities in special lines of work, are not approved for purposes of general experience.

Course Requirements

The requirements for graduation shall be:—

(a) Pass standing, in all courses outlined on page 65 for the first and second years, as stated on page 62.

(b) Pass standing in the third and fourth year courses equivalent to a minimum of 11 courses.

(c) Satisfactory distribution and concentration of courses:—See **Courses of Study** below.

(d) Satisfactory fulfilment of regulations concerning summer work for specialists.

Evaluation of Courses

For the purposes of evaluation, a full course shall consist of three lectures per week throughout the year, and shall be rated at 150 marks. A two-hour laboratory period equals one lecture period. More or less than full courses shall be rated proportionately. Where the unit of instruction is considered to be a single period per week per term, six units would constitute a full course.

Courses of Study

Before entering upon the third year, students shall prepare, in consultation with the professors under whom major subjects are to be taken, summaries of courses to be taken in the third and fourth years, which shall include the equivalent of not less than 11 nor more than 12½ full courses (*i.e.*, from 66 to 75 units). Term schedules must be approved by the Faculty.

To satisfy the requirements for concentration of courses the student shall select one or two subjects in which most of his work shall be done.* If a single subject is chosen it shall be selected from Group I below, and all the required courses, as indicated in the syllabus (page 66) must be taken. If two subjects are chosen they shall be selected either (a) both from Group I or (b) one subject from Group I and one subject from Group II. In either case, not less than 3½ courses must be taken in each subject. The subjects shall be designated major subjects.

* Departments shall be at liberty to recommend their students to take courses in cognate departments as equivalent to courses in their own departments.

MAJOR SUBJECTS OFFERED

Group I	Group II
Agronomy	Agricultural Engineering
Animal Husbandry	Bacteriology
Chemistry	Botany
Entomology	Economics
Horticulture	Parasitology
Plant Pathology	
Poultry Husbandry	

In addition to the foregoing, courses are offered in General Agriculture and in General Biology, as follows:—

General Agriculture. This provision is designed for students who do not care to follow one of the specialized courses offered but who wish to obtain a general training in agriculture together with the basic sciences. It offers the type of training asked for by those wishing to farm, to do extension work or enter the commercial field. It is arranged to meet the requirements of students who wish to give special attention to combinations of subjects which are not provided for otherwise. Though planned as a general course, it provides the possibility of pursuing graduate studies.

The courses that may be selected are listed in the syllabus, pages 66 to 70, under the column headed Gen. Agr.; the numbers 1 and 2 therein relate to the groups referred to below.

For the third and fourth years, all the courses in Group 1 shall be taken, except that either Animal Physiology or Plant Physiology will be accepted. Four full courses shall be taken from Group 2; of these, one full course must be chosen from each of three departments. The balance of the courses taken to make up the required number may be selected from any course listed in the announcement, provided it is approved by the committee in charge and by the Faculty.

The total number of courses taken in the third and fourth years must not be less than 11 and not more than 12½.

General Biology. This provision is designed for students who do not desire to take one of the more rigid professional courses during their undergraduate years, but rather to select courses which will serve as a foundation to later specialization in one of the fields of Applied Biology as it relates to agriculture.

The courses that may be selected are listed in the syllabus, pages 66 to 70, under the column headed Gen. Biol.; the numbers 1 and 2 therein relate to the groups referred to below.

For the third and fourth years, all courses in Group 1 shall be taken, except that either Animal Physiology or Plant Physiology will be accepted and that either Zoological Technique or Botanical Technique may be taken. Four full courses shall be taken from Group 2. The balance of the courses

taken to make up the required number may be selected from any course listed in the announcement, provided it is approved by the committee in charge and the Faculty.

The total number of courses taken in the third and fourth years must not be less than 11 and not more than 12½.

Summer Work Requirements

Students majoring in Agronomy will be required to spend one summer in the Agronomy Department at the College, or at some other approved college or experimental farm. This may be between the second and third, or third and fourth years. Arrangements will be made during this time to put the student in touch with each of the phases of the department's work.

Students majoring in Animal Husbandry will be required to work for a summer on a farm approved by the Animal Husbandry Department.

Students majoring in Horticulture will be required to work for a summer on a vegetable farm, fruit farm, a nursery or in a greenhouse.

Students majoring in Entomology or Plant Pathology will be required to spend one summer in field or laboratory work, either at the College immediately under the direction of the department concerned, in one of the Government laboratories, or in some other place approved by the department concerned.

Students majoring in Poultry Husbandry will be required to work for a summer on a poultry farm approved by the Poultry Husbandry Department.

Summer Work for B.Sc. (Agr.) students

A certain number of students who have completed at least one session in the B.Sc. (Agr.) course, may be employed during the spring and summer months to assist in the work of the various departments of the College. Such students will be paid according to the character and quantity of their work and, whilst in residence, will have to conform to the usual regulations. No other students may remain in residence without special permission from the Dean.

Syllabus of Courses
(See page 65)

DESCRIPTION OF COURSES

DEPARTMENT OF AGRICULTURAL ENGINEERING

Associate Professor:—L. G. Heimpel
Lecturer:—William Kalbfleisch

30—Surveying and Drainage. Methods of land surveying applicable to agriculture, including chaining, levelling, computation of areas, making of maps and profiles. Farm drainage.

3rd + 4th Yrs:—2 lects., 1 lab., per wk., 1st term, and 5 days of field work prior to the opening date of session. Given in 1941–42. Professor Heimpel.

31—Farm Buildings. Planning and construction of farm buildings suitable to eastern Canadian conditions; requirements of various buildings, structural materials, ventilation and sanitation. Prerequisite:—Agricultural Engineering 35A.

3rd + 4th Yrs. :—1 lect., 2 labs., per wk., 2nd term. Given in 1940–41. Professor Heimpel.

32.—Spraying and Dusting Equipment. A laboratory study of high pressure pumps, dusting machines, spray guns and other equipment.

3rd + 4th Yrs:—2 labs., per wk., 2nd term. Given in 1941–42. Mr. Kalbfleisch.

33—Farm Machinery. A study of tillage, harvesting and threshing machinery. Field tests, dynamometer studies, hitches and eveners.

3rd or 4th Yr:—1 lect., 2 labs., per wk., 1st term. Mr. Kalbfleisch.

34—Farm Power Machinery. A study of internal combustion engines, tractors, and types of electric motors, and their application to farm work; also transmission.

3rd + 4th Yrs:—1 lect., 2 labs., per wk., 2nd term. Given in 1940-41. Mr. Kalbfleisch.

35—Agricultural Drafting.

A. The use of drawing instruments, projection, elementary architectural drawing.

3rd Yr:—3 labs., per wk., 1st term. Professor Heimpel.

B. Perspective, architectural and machine drawing.

3rd Yr:—3 labs., per wk., 2nd term. Professor Heimpel.

36—Projects.

4th Yr:—Either term. Credit—one-half course. Professor Heimpel and Mr. Kalbfleisch.

AGRICULTURE

Offered jointly by the departments of Agricultural Engineering, Agronomy, Animal Husbandry, Horticulture and Poultry Husbandry.

10—Agriculture. An orientation course giving the student an opportunity to obtain a general view of agriculture, and some idea of the nature and problems of the various branches to each other and to the sciences.

1st Yr. :—2 lects., 1 lab., per wk., 2 terms. 1st term, Animal Husbandry; 2nd term, Agronomy. Professors Ness, Summerby, and staffs.

20—Agriculture. In continuation of Course 10.

2nd Yr. :—2 lects., 1 lab., per wk., 2 terms. 1st term, Horticulture; 2nd term, Poultry Husbandry and Agricultural Engineering. Professors Murray, Maw, Heimpel, and staffs.

DEPARTMENT OF AGRONOMY

Professor:—Robert Summerby

Assistant Professors:—L. C. Raymond, E. A. Lods

Lecturer:—J. Norman Bird

31—Cereal Crops. An intensive study of cereal crops; production, marketing, uses, types, varieties, strains, commercial and seed grades.
3rd Yr:—2 lects., 2 labs., per wk., 2nd term. Professor Lods.

32—Hay and Pasture Crops. Similar to Cereal Crops.
4th Yr:—2 lects., 1 lab., per wk., 1st term. Mr. Bird.

33—Roots, Corn and other Silage Crops. Similar to Cereal Crops.
3rd + 4th Yrs:—2 lects., 1 lab., per wk., 2nd term. Given in 1940-41. Professor Raymond.

34—Experimentation. A study of factors involved, statistical methods, designs of experiments and interpretation of results.
3rd or 4th Yr:—2 lects., 2 labs., per wk., 1st term. Professor Summerby.

35—Plant Breeding. Problems, methods, and the interpretation of results, in the breeding of field crops. Prerequisite:—Genetics 30, and Botany 33 or one Crops Course.
4th Yr:—2 lects., 1 lab., per wk., 2nd term. Professor Raymond.

36—Crop Adaptation and Distribution. Factors influencing crop adaptation and their effect on distribution. Agronomic organizations.
3rd Yr:—2 lects., 1 lab., per wk., 1st term. Mr. Bird.

38—Soil Management. An analysis of factors influencing soil productivity and their control. Prerequisite:—Chemistry 33 and 42, and Physics 36.
4th Yr:—2 lects., per wk., 2nd term. Mr. Bird.

42—Projects.
4th Yr:—2 labs., per wk., either term. Professor Summerby and Staff.

43—Field Crop Production. Designed for students other than specialists in Agronomy. Not given for fewer than five students.

A. Soil and crop relations, cropping plans, weed control, seed, and other considerations applying to all crops. B. A study of field crops. (Prerequisite 43 A). In place of this "B" part a student may substitute one of the following : Agron. 31, 32, or 33.
3rd or 4th Yr. :—2 lects., 1 lab., per wk., 2 terms. Professor Summerby.

DEPARTMENT OF ANIMAL HUSBANDRY

Professor:—A. R. Ness
Associate Professor:—Earle W. Crampton
Assistant Professor:—Lionel H. Hamilton

30—Swine Production. Care, feed, and management of swine. Special problems of bacon hog production. Swine experimentation and interpretation of results.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2nd term. Given in 1940–41. Professor Hamilton.

34—Dairy Cattle Production. The production of dairy cattle, with special reference to the problems of the dairy cattle industry; care and management of dairy cattle; dairy cattle organizations and dairy cattle experimentation.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 1st term. Given in 1941–42. Professor Ness.

35—Live Stock Judging. Principles and practice in judging farm livestock. Market and breed types. Show-ring judging. This course includes visits to various farms, breeding establishments, and live stock shows.
3rd + 4th Yrs:—3 labs., per wk., 1st term. Given in 1940–41. Professors Ness, Crampton, and Hamilton.

36—Breed History and Pedigree Study. The history and development of several breeds of live stock.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2nd term. Given in 1940–41. Professors Ness, Crampton, and Hamilton.

38—Animal Breeding. Genetics in relation to breeding. Prerequisite:—Genetics 30.
3rd + 4th Yrs:—2 lects., 1 lab., per wk., 2nd term. Given in 1940–41. Professor Crampton.

41—Horses, Sheep and Beef Cattle. A course covering the important features of the production of these classes of stock in Canada.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2nd term. Given in 1941–42. Professor Hamilton.

42—Projects.
3rd or 4th Yr:—Either term. Credit—one-half course. Professor Ness and Staff.

45—Fundamentals of Nutrition. Factors affecting digestibility and utilization of carbohydrates, fats, and proteins. Essential inorganic elements, their nutritional significance, and factors affecting their assimilation. Physiological roles of the vitamins. Determination of energy and protein requirements. Quantitative requirements for maintenance, growth, reproduction, lactation.
4th Yr:—3 lects., per wk., 1st term. Professor Crampton.

46—Feeds and Feeding of Live Stock.
4th Yr:—1 lect., 2 labs., per wk., 2nd term. Professor Crampton.

47—Nutrition Laboratory. For description see Chemistry 49.
4th Yr:—2 labs., per wk., 2nd term. Professors McFarlane and Crampton.

DEPARTMENT OF BACTERIOLOGY

Associate Professor:—P. H. H. Gray

Lecturer:—N. B. McMaster

30—General Microbiology. This course is a prerequisite to the courses listed below.
3rd or 4th Yr. :—2 lects., 2 labs., per wk., 1st term. Professor Gray.

32—Soil Microbiology.
3rd or 4th Yr:—2 lects., 2 labs., per wk., 2nd term. Professor Gray.

33—Laboratory Methods in Diagnosis.
4th Yr:—1 lect., 2 labs., per wk., 1st term. Mr. McMaster.

34—Food Microbiology.
3rd or 4th Yr:—1 lect., 2 labs., per wk., 2nd term. Mr. McMaster.

35—Dairy Bacteriology.
4th Yr:—2 lects., 2 labs., per wk., 1st term. Mr. McMaster.

36—Projects.
4th Yr:—3 labs., per wk., 2 terms. Professor Gray and Staff.

37—Seminar.
4th Yr:—1 hour per wk., 2 terms. Professor Gray and Staff.

38—Physiology of Micro-organisms.
3rd or 4th Yr:—1 lect., 3 labs., per wk., 2nd term. Professor Gray.

Students majoring in Bacteriology with one other subject are required to take all of the above courses.

BOTANY

10—Introductory Botany. A study of the flowering plant as a living organism with fundamentals of structure, physiology and reproduction, and an introduction to the general morphology of plants involving consideration of representative types of the several groups of the plant kingdom.

1st Yr:—2 lects., 2 labs., per wk., 2 terms. Professor Coulson and Dr. Crowell (Department of Plant Pathology).

30—Plant Physiology.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2nd term. Given in 1941–42. Professor Scarth (Faculty of Arts and Science).

31—Histology and Cytology. A detailed study of cells, cell division, tissues and their development, etc.
3rd Yr:—2 lects., 1 lab., per wk., 2nd term.

32—Plant Morphology.
3rd Yr:—1 lect., 2 labs., per wk., 1st term. Dr. Crowell (Department of Plant Pathology).

33—Systematic Botany.
3rd + 4th Yrs:—3 labs., per wk., 2nd term. Given in 1940–41. Dr. Crowell (Department of Plant Pathology).

34—Histological Technique. The preparation for the microscope of permanent stained mounts of at least twelve separate items. See Plant Pathology 30.
3rd Yr:—1 lect., 1 lab., per wk., 1st term.

DEPARTMENT OF CHEMISTRY

Professor:—W. D. McFarlane
Assistant Professor:—W. A. DeLong
Assistant Professor:—C. L. Wrenshall

10—Inorganic Chemistry.
1st Yr:—3 lects., 2 labs., per wk., 2 terms. Professor DeLong.

20—Organic Chemistry.
2nd Yr:—2 lects., per wk., 1st term.
3 lects., 2 labs., per wk., 2nd term. Dr. Wrenshall.
Text book:—Lowy and Harrow, Introduction to Organic Chemistry (Wiley).

21—Analytical Chemistry.
2nd Yr:—1 lect., 2 labs., per wk., 1st term. Dr. Wrenshall.

30—Analytical Chemistry. A. Theoretical. (Chemistry 3 A and 3 B in the Faculty of Arts and Science).
3rd Yr:—2 lects., per wk., 2 terms. Professor Mennie.

B. Practical. 1st term, Qualitative; 2nd term, Quantitative Analysis.
3rd Yr:—4 labs., per wk., 2 terms. Dr. Wrenshall.
Text book:—Curtman—Qualitative Chemical Analysis (Macmillan).

31—Organic Chemistry—Preparations.
3rd Yr:—2 labs., per wk., 2nd term. Dr. Wrenshall.
Text book:—Robertson—Laboratory Practice of Organic Chemistry (Macmillan).

32—General Biochemistry. Chemistry of the carbohydrates, lipides, amino-acids and proteins. Physico-chemical properties of proteins.
3rd or 4th Yr:—2 lects., 2 labs., per wk., 1st term. Professor McFarlane.

Text books:—Bodansky—Introduction to Physiological Chemistry (Wiley); Dutcher and Haley—Agricultural Biochemistry (Wiley).

33—Soils:—Soil Chemistry. Joint course with Physics 36. Prerequisite:—Chemistry 42. The chemical composition and properties of the profiles of the important soil types of Eastern Canada; podzolization; the colloidal complex of the soil; base exchange; composition and properties of soil organic matter; phosphorus compounds in soils, phosphorus fixation; relation of chemical analysis to soil survey work; soil and plant analysis as a guide to the nutrient requirements of soils; rapid soil tests.
4th Yr:—2 lects., 1½ labs., per wk., 1st term. Professor DeLong.

Text book:—Robinson—Soils—their Origin, Constitution and Classification (Murby).

39—Physical Chemistry. (Chemistry 4 and part of 7L (Eng. 51) in the Faculty of Arts and Science). Taken in Montreal, Tuesday and Thursday only.
3rd Yr:—2 lects., 2 labs., per wk., 2 terms. Professor Maass.

40—Assigned Projects.
3rd + 4th Yrs:—3 labs., per wk., 2 terms. Professor McFarlane and Staff.

41—Seminar.
4th Yr:—1 lect., per wk., 2 terms. Professor McFarlane and Staff.

42—Geology:—Soil Genesis and Genetics. The main geological periods of time; the more important rock-forming minerals; diastrophism, vulcanism, metamorphism; age and types of rocks occurring as extensive superficial formations in Eastern Canada; glaciation, glacial and post-glacial deposits. Phosphate and potash deposits.

Weathering; soil formation; genesis of the great soil groups; soil morphology; soil classification. Prerequisite to Agronomy 38.
3rd Yr:—2 lects., per wk., 1st term. Dr. Wrenshall.

45—Dairy Chemistry. The composition and analysis of milk and its products.
4th Yr:—2 lects., 2 labs., per wk., 1st term. Professor McFarlane.

46—Food Chemistry. The composition and analysis of foods other than dairy products. Prerequisite Chemistry 45.
4th Yr:—2 lects., 2 labs., per wk., 2nd term. Professor McFarlane.

47—Physiological Chemistry. Prerequisites:—Chemistry 32 and Physics 33. Classification and properties of enzymes; digestion; composition and properties of blood and bile, gaseous exchange and acid base equilibrium, metabolism of nutrients and tissue respiration, urine.

Laboratory work parallels the lecture course and includes blood and urine analysis.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2nd term. Professor McFarlane.

Text Books:—Bodansky—Introduction to Physiological Chemistry

(Wiley); Hawk and Bergeim—Practical Physiological Chemistry (Blakiston).

48—Plant Biochemistry. Prerequisites:—Chemistry 32 and Physics 33. Inorganic constituents of plants; chemical processes in which they are concerned. Organic constituents of plants; a study of representatives of the principal groups. Discussion of chemical phenomena occurring in plants such as hydrolysis, synthesis, condensation, oxido-reduction and respiration.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2nd term. Given in 1941–42. Professor DeLong.

Text books:—Onslow—Principles of Plant Biochemistry (Cambridge Univ. Press); Dutcher and Haley—Agricultural Biochemistry (Wiley).

49—Nutrition. Laboratory course to Nutrition 42 (B.H.S.). Prerequisite:—Chemistry 47. Basal metabolism, protein metabolism and protein utilization; acid-base metabolism; dietary deficiencies and vitamins.
4th Yr:—2 labs., per wk., 2nd term. Professor McFarlane and Professor Crampton.

Chemistry 30A and 39 are taken in Montreal on Tuesdays and Thursdays. These courses are required for students majoring in Chemistry only.

DEPARTMENT OF
COMPARATIVE PHYSIOLOGY AND PATHOLOGY

Professor:—Raymond L. Conklin

30—Elementary Physiology.
3rd Yr:—3 lects., per wk., 2nd term. Professor Conklin.

31—Disease Prevention. Sanitation and hygiene in the prevention of diseases and parasites infesting domestic animals. Prerequisite:—Course 30.
4th Yr:—3 lects., per wk., 1st term. Professor Conklin.

32—Poultry Diseases. Autopsies, laboratory work and demonstrations. Prerequisite courses:—Zoology 31, Bacteriology 30.
3rd + 4th Yrs:—2 labs., per wk., 2nd term. Given in 1940–41. Professor Conklin.

33—Microbial Diseases of Animals and those transmissible to man. Prerequisite:—Bacteriology 30.
4th Yr:—2 lects., 1 lab., per wk., 2nd term. Professor Conklin.

DAIRYING

Instructor:—H. W. Cunningham

30—The Dairy Industry; its importance in Canadian agriculture, the relative importance of the various products, and an analysis of the trade. The farm dairy and its equipment. The composition, quality,

value, care, and sale of milk and cream. Quality and defects in butter, cheese and other dairy products. Instruction in testing, separating, butter-making and cheesemaking.
3rd Yr:—2 lects., 2 labs., per wk., 2nd term.

DEPARTMENT OF ECONOMICS

Professor:—J. E. Lattimer

20—Elementary Principles.
2nd Yr:—3 lects., per wk., 2nd term.

30—Principles of Marketing and Co-operation. The problem of marketing. Services, agencies and methods. Possibilities of co-operation.
3rd + 4th Yrs:—3 lects., per wk., 2nd term. Given in 1940–41.

31—Economics of Agriculture. Problems of the industry including trade, tariffs, transportation, planned production, land tenure, farm credit and taxation.
3rd + 4th Yrs:—3 lects., per wk., 2nd term. Given in 1941–42.

32—Farm Organization and Management. Types of farming, size of business. Administration and efficiency. Records and accounts.
3rd + 4th Yrs:—3 lects., per wk., 1st term. Given in 1940–41.

33—Principles of Economic Theory. A continuation of course 20 (prerequisite). Historical development of economic theory. Source and character of contributions. Recent refinements. Public regulation of business.
3rd + 4th Yrs:—3 lects., per wk., 1st term. Given in 1941–42.

34—Projects.
3rd or 4th Yr:—Minimum of 2 labs., per wk., 1 term (either).

See note concerning graduate work on page 63.

DEPARTMENT OF ENGLISH

Associate Professor:—H. D. Brunt

Assistant Professor:—S. R. N. Hodgins (on leave of absence).

14—English Composition. Section and weekly conference hours, the equivalent of 1 lecture period per week, 2 terms; work performed by the student outside the class-room, 1 laboratory period per week, 2 terms.
1st Yr:—1 lect., 1 lab., per wk., 2 terms.

A student failing in the year's work will be required to repeat this course until the necessary standard has been attained.

15—English Literature. General course from Anglo-Saxon times to 1800. Part of course will be taken in seminar and tutorial conference.
1st Yr:—2 lects., per wk., 2 terms.

24—English Literature. General course from 1800 to the present day. Part of course will be taken in seminar and tutorial conference.
2nd Yr:—3 lects., per wk., 1st term. Professor Brunt.

35—English Composition (Journalism). An advanced course.
3rd + 4th Yrs:—3 lects., per wk., 1st term. Given in 1941-42. Hours to be arranged.

37—The Development of English Prose Fiction.
3rd + 4th Yrs:—3 lects., per wk., 1st term. Given in 1940-41.

38—The Development of the English Drama.
3rd + 4th Yrs:—3 lects., per wk., 2nd term. Given in 1940-41. Professor Brunt.

39—The Development of English Biography.
3rd + 4th Yrs:—3 lects., per wk., 2nd term. Given in 1941-42. Hours to be arranged. Professor Brunt.

EXTENSION METHODS

30—Extension Methods. Public speaking, study group technique, extension methods in Agriculture and Household Science, rural sociology.

Laboratory work will comprise participation in debates, conduct of public meetings, and similar activities, and the operation of the Rural Problems Club, which will meet weekly from November 1st to March 31st. Membership in the Club will be obligatory for all students of the Diploma classes, and will be open to all other students in Agriculture, Household Science and the School for Teachers.
3rd or 4th Yr:—1 lect., 1 lab., per wk., 2 terms. Dr. Brittain and Committee.

DEPARTMENT OF ENTOMOLOGY

Professor:—W. H. Brittain
Assistant Professor:—E. Melville DuPorte
Lecturers:—W. E. Whitehead, F. O. Morrison.

30—Insect Morphology.
3rd Yr:—2 lects., 2 labs., per wk., 2 terms. Professor DuPorte.

32—Entomological Technique. Prerequisite:—Zoology 32.
3rd Yr:—1 lect., 2 labs., per wk., 2nd term. Mr. Whitehead.

33—Economic Entomology. The principles and practice of Applied Entomology from a professional standpoint, including a survey of the Class *Hexapoda* with special reference to biological and economic aspects. A representative collection of economic insects including at least 50 adults, 20 larvæ and five complete life history sets will be required of all students taking this course.
4th Yr:—2 lects., 2 labs., per wk., 2 terms. Professor Brittain and Dr. Morrison.

34—General and Economic Entomology. A more elementary course similar to the foregoing, but suited to the general student. A collection of 25 adult insects, 10 larvæ and one complete life history set, representative of common economic insects, will be required of each

student taking the course.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 1st term. Given in 1941–42. Alternates with Plant Pathology 31. Professor Brittain and Dr. Morrison.

35—Systematic Entomology. The classification of the principal groups of insects. *Each student will be asked to choose a special group for more detailed study and to bring to the class an original collection in that group.* Prerequisite:—Entomology 30.
4th Yr:—2 lects., 2 labs., per wk., 2 terms. Mr. Whitehead.

36—Insect Ecology. The influence of the environment on the development, activities, distribution and abundance of insects.
3rd + 4th Yrs:—2 lects., per wk., 1st term. Given in 1941–42. Professor DuPorte.

37—Seminar. Presentation and discussion of reports on:—(1) Assigned topics; (2) Recent work in Entomology and Zoology; (3) Original investigation.
3rd Yr., 4th Yr. (both):—1 lab., per wk., 2 terms. Professors Brittain and DuPorte.

38—Projects. One or more problems entailing private investigation will be allotted to each student at the beginning of his third year. The work done should be equivalent to
3rd or 4th Yr:—2 labs., per wk., 2 terms. Professor Brittain.

39—Economic Entomology. A laboratory course supplemental to Course 33, open only to students who are majoring in Entomology and have received the permission of the department.
4th Yr:—1 lab., per wk., 2 terms. Professor Brittain.

GENETICS

30—Elementary Genetics. The modern conception of inheritance. Laboratory work with corn and with the fruit-fly, *Drosophila melanogaster.*
3rd or 4th Yr:—3 lects., 2 labs., per wk., 1st term. Professor Raymond (Agronomy Department).

31—Advanced Cytogenetics. Prerequisite, Course 30. Given in alternate years at Macdonald College and in the Department of Genetics, McGill University. (Faculty of Arts and Science, Genetics Course 3). At Macdonald College 1941–42.
4th Yr:—3 lects., per wk., 2 terms (Wednesday afternoons 2–5). Professor Huskins (Faculty of Arts and Science), Professors Summerby, Crampton, Raymond, Lods, Murray.

DEPARTMENT OF HORTICULTURE

Professor:—
Assistant Professor:—H. R. Murray
Lecturer:—R. J. Hilton
Instructor:—A. H. Walker

31—Vegetable Crops. The principles of vegetable growing, includ-

ing economic importance, geography, types and varieties, cultural requirements, harvesting, grading, marketing and storage as applied to the important crop plants.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2 terms, and 4 days prior to the opening date of the College session for the examination of material in the fields. Given in 1941-42. Professor Murray.

32—Landscape Architecture. History and development of landscape gardening. Description, characteristics, and identification of ornamental plants, propagation, nursery practices, and care of plant material; landscape plans, sketches, designs, drafting and specifications, as applied to rural and urban homes, estates, parks, playgrounds, etc.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2nd term. Given in 1941–42. Mr. Walker.

35—Floriculture. History, development, varieties, propagation and culture of flowers, with consideration of harvesting, grading, packing, storage and marketing. Decoration, floral designs, arrangement of baskets, bouquets and designs, table and house decoration. Trips to greenhouse establishments.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2nd term. Given in 1940–41. Mr. Walker.

36—Plant Breeding. A study of the principles of genetics as applied to the breeding and improvement of horticultural crop plants. The development of breeding methods for different types of plants will be given special consideration. Lectures will be supplemented by practice periods in the greenhouse. Prerequisite:—Genetics 30 and permission to register.
4th Yr:—2 lects., 2 labs., per wk., 2nd term. Professor Murray.

37—Seminar. Presentation and discussion of reports on assigned topics, recent work and developments in horticulture and reports on the original investigations of the students and staff.
4th Yr:—1 period per wk., 2 terms. Professor Murray and Staff.

38—Pomology (Orchard Fruits). The fundamentals of orchard fruit propagation, production and marketing, with visits to orchards, markets, and cold storage establishments.
3rd + 4th Yr:—1 lect., 1 lab., per wk., 2 terms and 4 days prior to the opening date of the College session for the examination of material in the orchards. Given in 1940-41. Dr. Hilton.

39—Pomology (Small Fruits). The fundamentals of small fruit propagation, production and marketing, with visits to producing areas and marketing establishments.
3rd + 4th Yr:—1 lect., 1 lab., per wk., 2 terms and 4 days prior to the opening date of the College session for field examination of material. Given in 1940-41. Dr. Hilton.

40—Horticultural Crops. A course dealing with the more important branches of horticulture, designed for students other than horticulture

specialists.

a. A study of tree and bush fruits with attention to improving the home surroundings.

b. A study of potatoes as a cash crop, canning and other special crops and the farm garden.

Under special conditions either A or B may be taken by permission.
3rd or 4th Yrs:—2 lects., 1 lab., per wk., 2 terms. Professor Murray and Dr. Hilton.

41—Projects.
4th Yr:—2 labs., per wk., either term.

MATHEMATICS

10—Elementary Mathematical Analysis. An introduction to functions and their graphical representation; solution of equations; logarithms; trigonometry; binomial theorem; compound interest; permutations, combinations and probability.
1st Yr:—3 lects., per wk., 2 terms. Mr. E. C. Irvine. (School for Teachers.)

20—Calculus. Analytical geometry, differential and integral calculus.
2nd Yr:—3 lects., per wk., 2 terms. Professor W. Rowles (Department of Physics).

PARASITOLOGY

34—Seminar.
3rd and 4th Yrs:—1 lab., per wk., 2 terms. Professors DuPorte and Cameron.
Students will attend the combined Entomology-Parasitology Seminar.

35—Projects. A problem may be selected in Protozoology, Medical Entomology or Helminthology. The object of the problem is to enable the student:—(1) To do more intensive work in some selected field; (2) To obtain an introduction to the methods of scientific research.
4th Yr:—3 labs., per wk., 2nd term. Professors Cameron and DuPorte.

36—Protozoology. A morphological, biological and systematic study of protozoa with special reference to the parasites of domestic animals. Protozoological technique.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 1st term. Given in 1940–41. Professor DuPorte (Department of Entomology).

37—Medical Entomology. A systematic and biological study of insects concerned in the causation of disease in man and domestic animals. Prerequisite:—Entomology 30.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2nd term. Given in 1940–41. Professor DuPorte (Department of Entomology).

38—Helminthology. A morphological, biological and systematic study of the helminths with special reference to the parasites of domestic animals. Helminthological technique.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2nd term. Given in 1941–42. Professor Cameron (Institute of Parasitology).

DEPARTMENT OF PHYSICS

Associate Professor:—W. Rowles

Lecturer:—W. F. Oliver

12—General Physics. An elementary course dealing with the subject chiefly from the experimental side, with selected problems based on the fundamental principles. The course is designed to familiarize the students with the more important laws of physics and to furnish the necessary basis for later work.
1st Yr:—3 lects., 1 lab., per wk., 2 terms. Professor Rowles.

22—General Physics. Advanced. A continuation course which covers the same ground as Physics 12, but with more intensive treatment. Certain topics will receive special emphasis and additional phases of the subject will be considered.
2nd Yr:—3 lects., 1 lab., per wk., 2 terms. Dr. Oliver.

32—Meteorology. A study of the factors which condition climate and weather, etc.
3rd + 4th Yrs:—1 lect., per wk., 2nd term. Given in 1940–41. Professor Rowles.

33—Biophysics. (Prerequisite to Chemistry 47 and 48). A study of the gas laws; osmosis; surface phenomena; electrolytic dissociation; pH; colloidal state; X-rays in biology, etc.
3rd Yr:—2 lects., 2 labs., per wk., 1st term. Professor Rowles.

36—Soils—Soil Physics. A joint course with Chemistry 33. Soil texture as determined by mechanical analysis; soil moisture and its movement; soil constants and their measurement; physical properties of colloids and their effects on soil behaviour; dynamometer studies in relation to physical properties of soil, etc.
4th Yr:—1 lect., per wk., 1 lab., per fortnight, 1st term. Professor Rowles.

37—Molecular and Atomic Physics. This course includes a brief discussion of differential equations; Maxwell's distribution law; the laws of thermodynamics; atomic structure; the charge on the electron; isotopes; series in spectra; circular orbit theory for hydrogen; X-rays and crystal structure; radioactivity; introduction to nuclear physics, etc.
4th Yr:—3 lects., per wk., 2 terms. Dr. Oliver.

DEPARTMENT OF PLANT PATHOLOGY

Associate Professor:—John G. Coulson

Lecturer:—I. H. Crowell

30—Technique. The preparation and standardization of media. Inoculation methods, etc., Photomicrography and the optical equipment necessary.

Students taking the Plant Pathology Option will be required to take

that part of course Zoology 32 dealing with illustrations. Graduate students may take this work without credit.
3rd Yr:—1 lect., 1 lab., per wk., 2nd term.

31—Diseases of Plants. A study of the common diseases and their control. Use of spray calendars. Preparation of fungicides, etc.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 1st term. Given in 1940–41. Alternates with Entomology 34.

32—Plant Pathology. Detailed studies of plant diseases; distribution, economic importance, symptoms, cause and control.

Myxomycetous, phycomycetous, ascomycetous and non-parasitic diseases.
3rd Yr:—2 lects., 2 labs., per wk., 2nd term. Professor Coulson.

33—Mycology. A study of fungi as concerning taxonomy, morphology, sexuality, etc.
4th Yr:—2 lects., 2 labs., per wk.. 2 terms. Dr. Crowell.

34—Projects. One or more problems entailing private investigation will be allotted each student.
4th Yr:—Minimum of 2 labs., per wk., 2 terms. Professor Coulson and Staff.

35—Seminar. A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc., in the field of General Botany, Physiology, Cytology, Histology, Morphology, Ecology, Taxonomy, Genetics, Mycology, Pathology. Attention will be more especially directed to such articles as have application in Plant Pathology or Mycology.
4th Yr:—1 period per wk., 2 terms. Professor Coulson and Staff.

36—Plant Pathology. Detailed studies of plant diseases; distribution, economic importance, symptoms, cause and control.

Basidiomycetous, fungi imperfecti, bacterial and virus diseases.
4th Yr:—2 lects., 2 labs., per wk., 2 terms. Professor Coulson.

NOTE:—12 laboratory periods on bacterial diseases of plants are to be taken in the Department of Bacteriology.

DEPARTMENT OF POULTRY HUSBANDRY

Assistant Professor:—W. A. Maw
Lecturer:—N. Nikolaiczuk.

31—History of Breeds and Judging. The origin, domestication and development of the various breeds of chickens, turkeys, ducks and geese. Advanced practice in judging on the basis of type and colour standards.
3rd + 4th Yrs:—1 lect., 2 labs., per wk., 1st term. Given in 1941-42. Professor Maw.

33—General Poultry Husbandry. The general principles and practice of poultry production and marketing. Elective for poultry specialists.
3rd Yr:—2 lects., 1 lab., per wk., 1st term. Mr. Nikolaiczuk.

34—Breeding Principles. The fundamental principles underlying

poultry breeding. Prerequisites:—Genetics 30; Poultry Husbandry 31 and 33.
3rd + 4th Yrs:—2 lects., 1 lab., per wk., 2nd term. Given in 1941-42. Professor Maw.

35—Poultry Farm Management. Poultry farming as a business; size of business, economic aspects of capital and labour involved; farm layout and buildings; arrangement; equipment; inventories, cost accounts and other records. Prerequisite:—Poultry Husbandry 33.
4th Yr:—1 lect., 1 lab., per wk., 2 terms. Professor Maw.

36—Research. A study of method in conducting experiments and analysis of data. Prerequisite:—Poultry Husbandry 33.
4th Yr:—1 lect., 2 labs., per wk., 2 terms. Professor Maw and Mr. Nikolaiczuk.

37—Assigned Projects.
3rd Yr:—2 labs., per wk., 2nd term.
4th Yr:— 3 labs., per wk., 2 terms. Professor Maw and Mr. Nikolaiczuk.

38—Poultry Nutrition. Prerequisite:—Poultry Husbandry 33.
3rd + 4th Yrs:—2 lects., 1 lab., per wk., 2nd term. Given in 1941-42. Mr. Nikolaiczuk.

ZOOLOGY

20—Elementary Zoology. An introduction to animal structure, physiology and classification. Representatives of the chief phyla are studied and used to introduce some of the general principles of Zoology.
2nd Yr:— 2 lects., 2 labs., per wk., 2 terms. Professor DuPorte, Mr. Whitehead and Dr. Morrison (Department of Entomology).

31—Comparative Vertebrate Anatomy.
3rd + 4th Yrs:—2 lects., 2 labs., per wk., 2 terms. Given in 1941-42. Dr. Grant (Faculty of Arts and Science), and Mr. Whitehead (Department of Entomology).

32—Histological Technique. The preparation of histological slides and the technique of making scientific drawings.

Students taking the Entomology Option will be required to take that part of the course Plant Pathology 30 which deals with photography and the use of the microscope. Graduate students may take this work without credit.
3rd Yr:—1 lect., 2 labs., per wk., 1st term. Mr. Whitehead (Department of Entomology).

B.Sc. (AGR.) AND B.H.S. COURSES
EXAMINATIONS

All students will be required to give satisfactory evidence of mastery of the material of lecture and laboratory. First and second year examinations will be held at the end of the first term in all courses. In all years examinations will be held at the conclusion of each course, at which time the examiner will pass in to the Registrar a mark giving the final standing of each student in all the work of the course.

First year students who obtain an average of less than 40 per cent in the first term examinations will not be permitted to continue with the work of the second term.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. See page 33.

Pass Mark and Classes

The pass mark in all examinations is 50 per cent.

In the first and second years, 80 per cent and over is first class standing; 65 to 79 per cent, second class; 50 to 64 per cent, third class or pass.

Advancement from Year to Year

In the first and second years, any student who fails in courses of the year's work to an aggregate value of more than 450 marks will be required to repeat the year. Any student who fails in courses of the year's work to an aggregate value of 450 marks or less may write supplemental examinations in all failed courses the following September. However, a student who fails in English 14 (Composition) will be required to repeat the course until the necessary standard has been attained.

No student may enter the second year carrying a condition in more than one subject of first year work, and no student may enter the third year carrying a condition in more than one subject of second year work.

No student may enter the third year with any subject outstanding from his first year, and no student may enter the fourth year with any subject outstanding from his second year.

Any student who, after the final spring examinations of the third year, has failed to obtain an average of at least 50 per cent, based on all the courses of his third year, will be required to repeat the year. No student will be admitted to the fourth year of the B.Sc. (Agr.) course who has not passed in third year work equivalent to at least five full courses (30 units), or to the fourth year of the B.H.S. course who has not passed in third year courses having an aggregate value of at least 750 marks.

A student who is allowed to repeat a year may be exempted from attending lectures and passing examinations in one or more subjects in which he has already passed and obtained at least 60 per cent, and may be required to take one or more subjects of the following year in his course. The choice of subjects must involve no conflict of hours in the timetable.

Pass and Honour Standing

Honour Standing:—Students who have obtained an average of at least 60 per cent in the work of the first two years, and who obtain an average of 80 per cent or over, based on all the courses of their third and fourth years, and not less than 50 per cent in any course, shall be granted First Class Honours: those who obtain an average of from 65

to 79 per cent, based on all the courses of their third and fourth years, and not less than 50 per cent in any course, shall be granted Second Class Honours. Students who have obtained an average of less than 60 per cent in the work of the first two years are not eligible for Honours.

Pass Standing:— Students who obtain an average of not less than 50 per cent, based on all the courses of their third and fourth years, and not less than 50 per cent in any course, shall be granted Pass Standing.

SUPPLEMENTAL EXAMINATIONS

Regular Supplemental Examinations.—A regular supplemental examination is a first supplemental examination in a subject.

Regular supplemental examinations will be held before the opening of lectures in September and in January.

A first supplemental examination in a subject, not involving the preparation of a special paper, may also be arranged in conjunction with the regular sessional examinations.

Special Supplemental Examinations.— Supplemental examinations taken at other times than those appointed, and supplemental examinations taken subsequent to a first supplemental examination, will be considered as special supplementals and must be arranged with the Registrar.

Every candidate for either a regular or a special supplemental examination is required to fill out an application form for such examination and to return it with the necessary fee (for which see page 24) at least three weeks before the date set for the examination. Application forms may be obtained from the Registrar.

No student writing a supplemental examination in a subject will be granted marks higher than the pass mark, 50 per cent.

(e) GRADUATE COURSES

Graduate work, under the Faculty of Graduate Studies and Research, McGill University, Montreal, may be taken at Macdonald College, in Agronomy, Animal Nutrition and Breeding (including Poultry Nutrition and Breeding), Bacteriology, Chemistry, Entomology, Horticulture, Parasitology, and Plant Pathology. The advanced courses of study offered lead to the degrees of Master of Science and Doctor of Philosophy.

Graduates who have completed three full courses or their equivalent in the Department of Economics at Macdonald College and who, in addition, have completed at least two full courses in the Department of Economics and Political Science or their equivalent with at least second class honours, may register in the Faculty of Graduate Studies and Research to proceed toward the degree of Master of Arts.

A number of scholarships and student assistantships are available.

The Faculty of Graduate Studies and Research issues an announcement giving full information regarding graduate courses, and scholarships, theses, registration, etc. in connection therewith, which will be sent on application to the Registrar, to the Dean of the Faculty of Graduate Studies and Research, McGill University, Montreal, or to the Dean of the Faculty of Agriculture, Macdonald College, Que.

SYLLABUS

Diploma Course

SUBJECTS	Course Numbers	First Term per week		Second Term per week	
		Lects.	Labs.	Lects.	Labs.
FIRST YEAR					
Agricultural Engineering:—					
Farm Machinery	1	1	3	.....	.....
Farm Construction	2	.....	.....	1	2
Agriculture:—	1	1	.....	1	.....
Agronomy:—					
Soils and Soil Management	1	3	.....	.....	.....
Hay and Pasture Crops	3	.....	.....	2	1
Corn and Root Crops	5	.....	.....	3	.....
Animal Husbandry:—					
Farm Live Stock	1	3	2	2	2
Bacteriology	1	.....	.....	1	1
Botany:—	1	2	1	.....	.....
Chemistry:—	1	2	1	.....	.....
English:—	2	3	.....	3	.....
Entomology:—	3	.....	.....	2	1
Horticulture:—					
General Horticulture	4	1	1	1	1
Mathematics:—	1	1	1	1	1
Poultry Husbandry:—					
Productive Poultry Husbandry	1	2	1	2	1
SECOND YEAR					
Dairy Farming Group					
Agricultural Engineering:—					
Land Drainage and Farm Sanitation	6	2	2	.....	.....
Farm Shopwork	7	.....	.....	1	2
Agronomy:—					
Crop Management	7	.....	.....	2	1
Grain Crops	9	2	1	.....	.....
Animal Husbandry:—					
Farm Live Stock	6	2	2	2	2
Live Stock Breeding	7	.....	.....	2	.....
Live Stock Feeding	8	2	.....	.....	.....
Animal Nursing	6	.....	.....	2	1
Dairying:—	6	.....	.....	2	2
Economics:—					
Principles of Marketing	7	3	1	.....	.....
Farm Organization and Management	8	.....	.....	2	1
English:—	7	1	1	1	1
Mathematics:—	6	2	.....	.....	.....
Physics	6	1	2	.....	.....
Poultry Husbandry:—					
Poultry Problems, Advanced	6	.....	.....	2	1
*General Poultry Husbandry	7	2	1	.....	.....
Project:—	6	2	.....	2	.....
SECOND YEAR					
Fruit Farming Group					
Agricultural Engineering:—					
Land Drainage and Farm Sanitation	6	2	2	.....	.....
Farm Shopwork	7	.....	.....	1	2
Agronomy:—					
Crop Management	7	.....	.....	2	1
Economics:—					
Principles of Marketing	7	3	1	.....	.....
Farm Organization and Management	8	.....	.....	2	1
English:—	7	1	1	1	1
Horticulture:—					
Vegetable Gardening	6	2	2	2	2
Ornamental Gardening	7	2	1	.....	.....
Fruit Growing	8	2	2	3	2
Mathematics:—	6	2	.....	.....	.....
Physics:—	6	1	2	.....	.....
Plant Pathology:—					
Plant Diseases	6	.....	.....	2	1
Poultry Husbandry:—					
Poultry Problems, Advanced	6	.....	.....	2	1
*General Poultry Husbandry	7	2	1	.....	.....
Project:—	6	2	.....	2	.....

*An elective course which may be substituted for one of the above courses, with the approval of Diploma Course Committee.

SYLLABUS

B.Sc. (Agr.) and B.H.S. Courses
First and Second Years

SUBJECTS	Course Numbers	First Term per week		Second Term per week	
		Lects.	Labs.	Lects.	Labs.
FIRST YEAR					
Agriculture:—					
*Agriculture	10	2	1	2	1
Botany:—					
**Botany, Introductory	10	2	2	2	2
Chemistry:—					
Chemistry, Inorganic	10	3	2	3	2
English:—					
Composition	14	1	1	1	1
Literature	15	2	.....	2	.....
Household Science:—					
+Household Science, Introduction to	10	3	.....	.....	.....
Mathematics:—					
Mathematical Analysis, Elementary	10	3	.....	3	.....
Physics:—					
General Physics	12	3	1	3	1
Physical Education:—					
+Physical Education	10	Minimum 2 hours weekly.			
SECOND YEAR					
Agriculture:—					
*Agriculture	20	2	1	2	1
Art:—					
+Art Appreciation and Interior Decoration	20	2	.....	2	.....
+Costume	21	1	.....	1	.....
Chemistry:—					
Organic Chemistry	20	2	.....	3	2
Analytical Chemistry	21	1	2	.....	.....
Economics:—					
*Elementary Principles	20	.....	.....	3	.....
English:—					
Literature	24	3	.....	.....	.....
Foods and Cookery:—					
+Cookery	25	2	2	2	2
+Foods, Theory of	24	1	.....	1	.....
Household Science:—					
+Household Administration	20	.....	.....	2	1
Mathematics:—					
*Calculus	20	3	.....	3	.....
Physics:—					
*General Physics	22	3	1	3	1
Zoology:—					
Zoology, Elementary	20	2	2	2	2

* B.Sc. (Agr.) only.

+B.H.S. only.

**B.H.S., in lieu of Botany 10, first year French or German will be accepted from students from other Universities.

B.C.I.T. UNIVERSITY LIBRARY

SYLLABUS
B.Sc. (Agr.) COURSE
THIRD AND FOURTH YEARS

SUBJECTS	Course Nos.	Periods per week		Term given		Session offered (if alternating); or Year.	Curricula for Students Majoring in								
		Lects.	Labs.	1st	2nd		Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Agricultural Engineering:—															
Surveying and Drainage	30	2	1	x	.....	1941-42	.....	.....	.....	.....	.....	.....	.....	2	.....
Farm Buildings	31	1	2	.....	x	1940-41	.....	.....	.....	.....	.....	.....	.....	2	.....
Spraying and Dusting Equipment	32	.....	2	.....	x	1941-42	.....	.....	.....	.....	.....	.....	.....	.....	.....
Farm Machinery	33	1	2	x	.....	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	2	.....
Farm Power Machinery	34	1	2	.....	x	1940-41	.....	.....	.....	.....	.....	.....	.....	2	.....
Agricultural Drafting	35	.....	3	x	x	3rd	.....	.....	.....	.....	.....	.....	.....	.....	.....
Projects	36	.....	3	Either		4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Agronomy:—															
Cereal Crops	31	2	2	.....	x	3rd	X	.....	.....	.....	.....	.....	.....	2	.....
Hay and Pasture Crops	32	2	1	x	.....	4th	X	.....	.....	.....	.....	.....	.....	2	.....
Roots, Corn and other Silage Crops	33	2	1	.....	x	1940-41	X	.....	.....	.....	X	.....	.....	.....	2
Experimentation	34	2	2	x	.....	3rd or 4th	X	.....	.....	.....	.....	.....	.....	.....	2
Plant Breeding	35	2	1	.....	x	4th	X	.....	.....	.....	.....	.....	.....	.....	2
Crop Adaptation and Distribution	36	2	1	x	.....	3rd	X	.....	.....	.....	.....	.....	.....	.....	.....
Soil Management	38	2	.....	.....	x	4th	X	.....	.....	.....	.....	.....	.....	2	.....
Projects	42	.....	2	Either		4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Field Crop Production	43	2	1	x	x	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	2	.....
Animal Husbandry:—															
Swine Production	30	2	2	.....	x	1940-41	.....	X	.....	.....	.....	.....	.....	2	.....
Dairy Cattle Production	34	2	2	x	.....	1941-42	.....	X	.....	.....	.....	.....	.....	2	.....
Live Stock Judging	35	.....	3	x	.....	1940-41	.....	X	.....	.....	.....	.....	.....	.....	.....
Breed History and Pedigree Study	36	2	2	.....	x	1940-41	.....	.....	.....	.....	.....	.....	.....	.....	.....
Animal Breeding	38	2	1	.....	x	1940-41	.....	X	.....	.....	.....	.....	.....	.....	2
Horses, Sheep and Beef Cattle	41	2	2	.....	x	1941-42	.....	X	.....	.....	.....	.....	.....	2	.....
Projects	42	.....	3	Either		3rd or 4th	.....	X	.....	.....	.....	.....	.....	.....	.....
Fundamentals of Nutrition	45	3	.....	x	.....	4th	.....	X	.....	.....	.....	.....	.....	.....	2
Feeds and Feeding of Livestock	46	1	2	.....	x	4th	.....	X	.....	.....	.....	.....	.....	.....	.....
Nutrition Laboratory	47	.....	2	.....	x	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....

SYLLABUS
B.Sc. (Agr.) COURSE
THIRD AND FOURTH YEARS (Continued)

SUBJECTS	Course Nos.	Periods per week		Term given		Session offered (if alternating); or Year.	Curricula for Students Majoring in								
		Lects.	Labs.	1st	2nd		Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Bacteriology:—															
General Microbiology	30	2	2	x	.....	3rd or 4th	X	X	X†	.....	.....	X	X	1	1
Soil Microbiology	32	2	2	.....	x	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	2
Laboratory Methods in diagnosis	33	1	2	x	.....	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Food Microbiology	34	1	2	.....	x	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dairy Bacteriology	35	2	2	x	.....	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Projects	36	.....	3	x	x	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminar	37	1	.....	x	x	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Physiology of Micro-organisms	38	1	3	.....	x	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	2
Botany:—															
Plant Physiology	30	2	2	.....	x	1941–42	X	.....	X†	.....	X	X	.....	1	1
Histology and Cytology	31	2	1	.....	x	3rd	X	.....	.....	.....	.....	X	.....	.....	2
Plant Morphology	32	1	2	x	.....	3rd	.....	.....	.....	.....	.....	X	.....	.....	.....
Systematic Botany	33	.....	3	.....	x	1940–41	.....	.....	.....	.....	X	X	.....	.....	2
Histological Technique	34	1	1	x	.....	3rd	.....	.....	.....	.....	.....	X	.....	.....	1
Chemistry:—															
Analytical Chemistry	30	2	4	x	x	3rd	.....	.....	X	.....	.....	.....	.....	.....	.....
Organic Chemistry—Preparations	31	.....	2	.....	x	3rd	.....	.....	X	.....	.....	.....	.....	.....	.....
General Biochemistry	32	2	2	x	.....	3rd or 4th	X	X	X	X	X	X	X	1	1
Soils—Soil Chemistry	33	2	1½	x	.....	4th	X	.....	X†	.....	X	.....	.....	1	2
Physical Chemistry	39	2	2	x	x	3rd	.....	.....	X	.....	.....	.....	.....	.....	.....
Projects	40	.....	3	x	x	3rd + 4th	.....	.....	X†	.....	.....	.....	.....	.....	.....
Seminar	41	1	.....	x	x	4th	.....	.....	X	.....	.....	.....	.....	.....	.....
Geology:—Soil Genesis and Genetics	42	2	.....	x	.....	3rd	X	.....	X†	.....	X	.....	.....	1	2
Dairy Chemistry	45	2	2	x	.....	4th	.....	.....	X	.....	.....	.....	.....	.....	.....
Food Chemistry	46	2	2	.....	x	4th	.....	.....	X	.....	.....	.....	.....	.....	.....
Physiological Chemistry	47	2	2	.....	x	3rd + 4th	.....	X	X†	.....	.....	.....	.....	.....	2
Plant Biochemistry	48	2	2	.....	x	1941–42	.....	.....	X†	.....	.....	.....	.....	.....	2
Nutrition	49	.....	2	.....	x	4th	.....	.....	X†	.....	.....	.....	.....	.....	.....

SYLLABUS
B.Sc. (Agr.) COURSE
THIRD AND FOURTH YEARS (Continued)

SUBJECTS	Course Nos.	Periods per week		Term given		Session offered (if alternating); or Year.	Curricula for Students Majoring in								
		Lects.	Labs.	1st	2nd		Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Comparative Physiology and Pathology:—															
Elementary Physiology	30	3	.....	.....	x	3rd	.....	X	X†	.....	.....	.....	X	1	1
Disease Prevention	31	3	.....	x	.....	4th	.....	X	.....	.....	.....	.....	.....	.....	.....
Poultry Diseases	32	.....	2	.....	x	1940–41	.....	.....	.....	.....	.....	.....	X	.....	.....
Microbial Diseases of Animals	33	2	1	.....	x	4th	.....	X	.....	.....	.....	.....	.....	.....	.....
Dairying	30	2	2	.....	x	3rd	.....	.....	.....	.....	.....	.....	.....	.....	.....
Economics:—															
Principles of Marketing and Co-operation	30	3	.....	.....	x	1940–41	.....	.....	.....	.....	.....	.....	X	2	.....
Economics of Agriculture	31	3	.....	.....	x	1941–42	X	X	.....	.....	.....	.....	X	2	.....
Farm Organization and Management	32	3	.....	x	.....	1940–41	.....	.....	.....	.....	.....	.....	.....	2	.....
Principles of Economic Theory	33	3	.....	x	.....	1941–42	.....	.....	.....	.....	.....	.....	.....	2	.....
Projects	34	.....	2	Either		3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
English:—															
Journalism	35	3	.....	x	.....	1941–42	.....	.....	.....	.....	.....	.....	.....	.....	.....
Development of English Prose Fiction	37	3	.....	x	.....	1940–41	.....	.....	.....	.....	.....	.....	.....	.....	.....
Development of the English Drama	38	3	.....	.....	x	1940–41	.....	.....	.....	.....	.....	.....	.....	.....	.....
Development of English Biography	39	3	.....	.....	x	1941–42	.....	.....	.....	.....	.....	.....	.....	.....	.....
Extension Methods	30	1	1	x	x	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	1	.....

SYLLABUS
B.Sc. (Agr.) COURSE
THIRD AND FOURTH YEARS (Continued)

SUBJECTS	Course Nos.	Periods per week		Term given		Session offered (if alternating); or Year.	Curricula for Students Majoring in								
		Lects.	Labs.	1st	2nd		Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Entomology:—															
Insect Morphology	30	2	2	x	x	3rd				X					2
Entomological Technique	32	1	2		x	3rd				X					2
Economic Entomology	33	2	2	x	x	4th				X					
General and Economic Entomology	34	2	2	x		1941–42					X	X			
Systematic Entomology	35	2	2	x	x	4th				X					2
Insect Ecology	36	2		x		1941–42				X					2
Seminar (Third Year)	37		1	x	x	3rd				X					
Seminar (Fourth Year)	37		1	x	x	4th				X					
Projects	38		2	x	x	3rd or 4th				X					
Economic Entomology	39		1	x	x	4th									
Genetics:—															
Elementary Genetics	30	3	2	x		3rd or 4th	X	X			X	X	X	1	1
Advanced Cytogenetics	31	3		x	x	1941–42									
Horticulture:—															
Vegetable Crops	31	2	2	x	x	1941–42					X*				
Landscape Architecture	32	2	2		x	1941–42					X*				
Floriculture	35	2	2		x	1940–41					X*				
Plant Breeding	36	2	2		x	4th					X				2
Seminar	37		1	x	x	4th					X				
Pomology (Orchard Fruits)	38	1	1	x	x	1940–41					X*			2	
Pomology (Small Fruits)	39	1	1	x	x	1940–41					X*				
Horticultural Crops	40	2	1	x	x	3rd or 4th					X			2	
Projects	41		2	Either		4th									
Parasitology:—															
Seminar	34		1	x	x	3rd & 4th									
Projects	35		3		x	4th									
Protozoology	36	2	2	x		1940–41									
Medical Entomology	37	2	2		x	1940–41									
Helminthology	38	2	2		x	1941–42									

SYLLABUS
B.Sc. (Agr.) COURSE
THIRD AND FOURTH YEARS (Continued)

SUBJECTS	Course Nos.	Periods per week		Term given		Session offered (if alternating); or Year.	Curricula for Students Majoring in								
		Lects.	Labs.	1st	2nd		Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Physics:—															
Meteorology	32	1	.....	.....	x	1940–41	.....	.....	.....	.....	.....	.....	.....	.....	2
Biophysics	33	2	2	x	.....	3rd	X	X	X	X	X	X	X	1	1
Soils:—Soil Physics	36	1	½	x	.....	4th	X	.....	X†	.....	X	.....	.....	1	2
Molecular and Atomic Physics	37	3	.....	x	x	4th	.....	.....	X	.....	.....	.....	.....	.....	2
Plant Pathology:—															
Technique	30	1	1	.....	x	3rd	.....	.....	.....	.....	.....	X	.....	.....	2
Diseases of Plants	31	2	2	x	.....	1940–41	.....	.....	.....	X	X	.....	.....	.....	.....
Plant Pathology	32	2	2	.....	x	3rd	.....	.....	.....	.....	.....	X	.....	.....	.....
Mycology	33	2	2	x	x	4th	.....	.....	.....	.....	.....	X	.....	.....	2
Projects	34	.....	2	x	x	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminar	35	.....	1	x	x	4th	.....	.....	.....	.....	.....	X	.....	.....	.....
Plant Pathology	36	2	2	x	x	4th	.....	.....	.....	.....	.....	X	.....	.....	.....
Poultry Husbandry:—															
History of Breeds and Judging	31	1	2	x	.....	1941–42	.....	.....	.....	.....	.....	.....	X	.....	.....
General Poultry Husbandry	33	2	1	x	.....	3rd	.....	.....	.....	.....	.....	.....	X†	2	.....
Breeding Principles	34	2	1	.....	x	1941–42	.....	.....	.....	.....	.....	.....	X	.....	2
Poultry Farm Management	35	1	1	x	x	4th	.....	.....	.....	.....	.....	.....	X	2	.....
Research	36	1	2	x	x	4th	.....	.....	.....	.....	.....	.....	X	.....	.....
Projects (Third Year)	37	.....	2	.....	x	3rd	.....	.....	.....	.....	.....	.....	X	.....	.....
Projects (Fourth Year)	37	.....	3	x	x	4th	.....	.....	.....	.....	.....	.....	X	.....	.....
Poultry Nutrition	38	2	1	.....	x	1941–42	.....	.....	.....	.....	.....	.....	X	.....	.....
Zoology:—															
Comparative Vertebrate Anatomy	31	2	2	x	x	1941–42	.....	.....	.....	X	.....	.....	X	.....	2
Histological Technique	32	1	2	x	.....	3rd	.....	.....	.....	X	.....	.....	.....	.....	1

(x) Numbers in columns headed Gen. Agr. and Gen. Biol. refer to the Groups to which the courses belong; for requirements see statement regarding General Agriculture and General Biology Courses, p. 45.

* At least two of the following:—Course 31; Courses 32 and 35; Courses 38 and 39.

† Elective course for students specializing in this subject.

SYLLABUS
B.H.S. COURSE
THIRD AND FOURTH YEARS

SUBJECTS	Course Nos.	Periods per week		Term given		Year	Curricula for Students taking	
		Lects.	Labs.	1st	2nd		Dietetics	Education
Bacteriology:—								
General Microbiology	30	2	2	x		3rd		
Food Microbiology	34	1	2		x	3rd		
Chemistry:—								
General Biochemistry	32	2	2	x		3rd		
Physiological Chemistry	47	2	2		x	3rd		x
Nutrition	49*		2		x	4th	x	x
Economics:—								
Elementary Principles	20	3			x	3rd	x	x
Education:—								
Educational Psychology	30	3		x		3rd		
Methods of Teaching	40a	3		x		4th		x
Practice Teaching	40b	3 hours			x	4th		x
Demonstration Practice	41	3	1		x	4th	x	x
Extension Methods	30*	1	1	x	x	3rd or 4th		
Foods and Cookery:—								
Theory of Foods	30	1		x	x	3rd		
Advanced Cookery	31	1	1	x	x	3rd		
Household Administration:—								
Practice House	31	2 weeks				3rd or 4th		
Institution Administration:—								
Institution Administration	40	2		x	x	4th	x	x
Nutrition and Dietetics:—								
Dietetics	40	3	2	x		4th	x	x
Diet Therapy	41	5	1		x	4th	x	
Fundamentals of Nutrition	42	3		x		4th	x	x
Physics:—								
Biophysics	33	2	2	x		3rd	x	x
Physiology:—								
Elementary Physiology	30	3			x	3rd		
Textiles and Clothing:—								
Construction of Clothing	30	2	1	Either		3rd		
Principles of Clothing:—								
Selection and Construction	40	2	2	x	x	4th		x
Textiles and their Care	41*	2	1	x		4th	x	
Elective:—		3		Either		4th	x	

*Elective courses.

of food materials—their composition, cost and market conditions, as a basis for selection. Principles of food preparation are stressed and practice given in methods of cookery, applicable to the home.
4 lects., 4 labs., per wk., 1 term. Miss Rorke.

HOME NURSING

5—The Sick Room. Location, ventilation, furnishing, temperature, care of room; making of beds; bed baths; care of patient; care of young baby; prevention and care of bed sores; emergencies—first aid—and simple bandaging.
1 lect., per wk., 2nd term. Mrs. Peck.

HORTICULTURE

5—Home Gardening. This course includes a study of some of the principles of vegetable gardening, fruit culture, and the care and management of plants used for decorating the home and home grounds. The course is elective and will be given if a minimum of six students wish to take it.
1½ hrs. per wk., 8 to 10 wks., 2nd term. Mr. Walker.

HOUSEHOLD ACCOUNTS

5—This course deals with the problems of household financing and includes the study of standards of living, budgeting, simple methods of household accounting, savings and investments. Practice is given in keeping personal accounts during the course.
2 lects., per wk., 2nd term.

HOUSEHOLD ADMINISTRATION

5—This course is presented in a number of units pertaining to problems in family relationships and processes in the home. (a) the home and family; (b) child care and development; (c) housing and house planning; (d) selection of household equipment and furnishings; (e) food marketing; (f) meal planning and table service; (g) managing of time and labour in the home.
2 lects., per wk., 2 terms. Miss Hanke.

6—Care of Household Equipment and Furnishings.
1 lect., 2 labs., per wk., 1 term. Miss Hanke.

7—Practice House. See 31—Practice House (page 79).

INTERIOR DECORATION

5—The aim of the course is to develop a finer taste and keener interest in home surroundings. The course will include a study of homes, history

of furniture, principles of design, colour theory and harmony as applied to Interior Decoration.
2 lects., per wk., 2 terms. Miss Elderkin.

LAUNDERING

5—This course includes a study of the methods of laundering, the various types of fabrics used for clothing and in the household.
2 lects., 2 labs., per wk., 1 term. Miss Hanke.

NUTRITION

5—This course deals with the nutritive properties of common food materials, and the essentials of an adequate diet. The application of such knowledge to the feeding of family groups, as well as of individuals of different ages and various occupations, is discussed.
1 lect., per wk., 2 terms. Miss Rorke.

PHYSICAL EDUCATION

5—Physical Education.
2 hrs. per wk., 2 terms. Miss Spicer.

PHYSICS

5—General Physics. An elementary course.
1 lect., 1 lab., per wk., 2nd., term. Dr. Oliver.

PHYSIOLOGY

5—Anatomy and Physiology. A lecture course in which the structure and function of the various systems of the human body are discussed. Emphasis is placed on the laws of hygiene and the importance of bodily health.
2 lects., per wk., 1st term. Miss Taylor.

POULTRY

5—A study of poultry, meat, and egg production as related to culinary values.
2 hrs., per wk., 12 wks., 2nd term. Professor Maw. Elective.

TEXTILES AND CLOTHING

5—Selection and Construction of Clothing. Standards for buying fabrics and ready made clothing are studied from the standpoint of use, quality, appropriateness and becomingness. Construction of garments

includes the making of a tailored cotton undergarment, a wash frock, a silk undergarment and a silk or wool frock. Remodelling and making of seasonable hats when practicable.

Approximate cost of course.....$10.00

4 lects., 4 labs., per wk., 1 term. Miss Britt.

Homemaker Examinations

A certificate is granted to a student who successfully completes the course of study in the Homemaker Course.

For pass standing a minimum of 50% of the marks in each subject and 60% of the aggregate marks for the course is required.

Homemaker students conditioned in more than two subjects will be considered as having failed in the examination and may be required to repeat the work of the term in which they have failed before proceeding with the work of the next term.

Students conditioned in not more than two subjects may remove the condition by passing a supplemental examination in the particular subject or subjects.

Supplemental examinations may be held at the same time as sessional examinations or at other times by arrangement.

Time lost through absence from classes must be made up after class hours, unless an official report of illness is received.

For absences from classes, see "Attendance" page 33.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. See page 33.

(h) B.H.S. COURSE

This is a four-year professional course leading to the degree of Bachelor of Household Science.

The final year of the course has been arranged to give more specific training in two fields: in that of a dietitian and in that of a teacher of Household Science. Students enrolling for this year must decide before registering for which of these fields they desire to prepare.

A model dining department fitted with up-to-date equipment has been opened at "Glenaladale," a college staff residence. All B.H.S. students have an opportunity for practice work in this department during their final year.

While it is desirable for continuity of work that the whole four years be taken at Macdonald College, the subjects included in the first year are those of a general nature and may, therefore, be taken in the Faculty of Arts and Science at McGill (B.Sc. in Arts), or at any other university giving similar work.

Specialist Certificates for teaching Household Science subjects may be granted by the Protestant Central Board of Examiners of the Province of

Quebec to candidates taking the teaching option who have been awarded the B.H.S. degree. These certificates are valid only in the Protestant schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this certificate. Those desiring to apply for the certificate will be required to teach a minimum of twelve lessons.

Entrance Requirements

1. The general requirements, page 32.

2. Academic requirements, page 41, under "Entrance B.Sc. (Agr.) Course," with modifications indicated.

Syllabus of Courses

(See pages 65, 71)

Evaluation of Courses

(See page 44)

DESCRIPTION OF COURSES

ART

20—Art Appreciation and Interior Decoration. A survey of art history and development as applied to the graphic arts of painting, sculpture, architecture and the minor arts. Compiling of illustrated notes by the student.

A study of the principles of design, colour theory and harmony as applied to interior decoration.
2nd Yr:—2 lects., per wk., 2 terms. Miss Elderkin.

21—Costume. A study is made of colour and line as applied to dress. Each student makes a plan for her own wardrobe, considering her needs, her income and her choice of clothes, as regards line, colour and texture of fabrics. Samples of textile fabrics are studied and identified as to fibre, weave, and use.
2nd Yr:—1 lect., per wk., 2 terms. Miss Britt.

BACTERIOLOGY

Taken with B.Sc. (Agr.).

30—General Microbiology.
3rd Yr:—2 lects., 2 labs., per wk., 1st term. Professor Gray.

34—Food Microbiology.
3rd Yr:—1 lect., 2 labs., per wk., 2nd term. Mr. McMaster.

BOTANY

Taken with B.Sc. (Agr.).

10—Introductory Botany.
1st Yr:—2 lects., 2 labs., per wk., 2 terms. Professor Coulson and Dr. Crowell.

CHEMISTRY

Taken with B.Sc. (Agr.).

10—Inorganic Chemistry.
1st Yr:—3 lects., 2 labs., per wk., 2 terms. Professor DeLong.

20—Organic Chemistry.
2nd Yr:—2 lects., per wk., 1st term.
3 lects., 2 labs., per wk., 2nd term. Mr. Parker.

21—Analytical Chemistry.
2nd Yr:—1 lect., 2 labs., per wk., 1st term. Dr. Wrenshall.

32—General Biochemistry.
3rd Yr:—2 lects., 2 labs., per wk., 1st term. Professor McFarlane.

47—Physiological Chemistry. Prerequisite Chemistry 32 and Physics 33.
3rd Yr:—2 lects., 2 labs., per wk., 2nd term. Professor McFarlane.

49—Nutrition. Laboratory Course to Nutrition 42, B.H.S. Elective by permission.
4th Yr:—2 labs., per wk., 2nd term. Professor McFarlane and Professor Crampton.

ECONOMICS

Taken with B.Sc. (Agr.).

20—Elementary Principles.
3rd Yr:—3 lects., per wk., 2nd term. Professor Lattimer.

EDUCATION

30—Educational Psychology. General and practical aspects applied to teaching and learning.
3rd Yr:—3 lects., per wk., 1st term. Dean Laird.

40—(a) Methods of Teaching. This course includes laws of learning and their application to teaching; selection and organization of subject matter; different types of lessons; teaching devices; lesson judging; measurement of work; class management; planning and selecting of equipment.
4th Yr:—3 lects., per wk., 1st term. Miss Hayward.

40—(b) Practice Teaching. A definite amount of practice teach-

ing will be required. Problems arising from practice teaching at Macdonald College and in Montreal will serve as a basis for discussion.
4th Yr: — (2nd term) : — Practice teaching and observation, 2 hrs., per wk.; conference, 1 hr., per wk. Miss Hayward.

41—Demonstration Practice. This course is planned to furnish both training and practice in demonstrations suitable for use in schools, hospitals, extension work, women's clubs, and the commercial field.
4th Yr:—3 lects., and 1 conference period per wk., 2nd term. Miss Hayward.

ENGLISH

Taken with B.Sc. (Agr.).

14—English Composition.
1st Yr:—1 lect., 1 lab., per wk., 2 terms.

15—English Literature.
1st Yr:—2 lects., per wk., 2 terms.

24—English Literature.
2nd Yr:—3 lects., per wk., 1st term. Professor Brunt.

EXTENSION METHODS

30—Extension Methods. An elective course in public speaking, study group technique, extension methods in Agriculture and Household Science, rural sociology.
3rd or 4th Yr:—1 lect., 1 lab., per wk., 2 terms. Dr. Brittain and Committee.

FOODS AND COOKERY

24—Theory of Foods. A study of foods from the standpoint of production, selection, nutritive value, and Canadian food laws.
2nd Yr:—1 lect., per wk., 2 terms. Miss Hayward.

25—Cookery. This course aims to teach the principles of cookery, and to give opportunity for practice in the preparation of foods to render them both palatable and attractive.
2nd Yr:—2 lects., 2 labs., per wk., 2 terms. Miss Hayward.

30—Theory of Foods. Historical study and appreciation of foods.
3rd Yr:—1 lect., per wk., 2 terms. Miss Stickwood.

31—Advanced Cookery. This course gives a more extensive knowledge of the history and development of cookery. Laboratory practice is given to develop an appreciation of the variety of methods of food preparation. Experimental methods.
3rd Yr:—1 lect., 1 lab., per wk., 2 terms. Miss Stickwood.

HOUSEHOLD ADMINISTRATION

20—Household Administration. A study of the organization and management of the home including meal planning, table service, and factors in selection, care, and arrangement of household furnishings and equipment.
2nd Yr:—2 lects., 1 lab., per wk., 2nd term. Miss Hanke.

31—Practice House. An eight-roomed apartment is provided as a field for the study of the value of organization and system in the home and to gain practical experience in planning menus, marketing and accounting.
3rd or 4th Yr.

HOUSEHOLD SCIENCE

10—Introduction to Household Science. A course of lectures arranged to acquaint the student with the development and scope of Household Science training.
1st Yr:—3 lects., per wk., 1st term. Household Science Staff and others.

INSTITUTION ADMINISTRATION

40—A study of the principles of efficient organization and administration with application to hospital, commercial, industrial and educational dietary departments. Practice is provided in a model dining department fitted with up-to-date equipment. Visits are made to institutional kitchens, markets and cold storage plants.
4th Yr:—2 lects., per wk., 2 terms, and practical experience in model dining department. Miss Stickwood.

MATHEMATICS

Taken with B.Sc. (Agr.).

10—Elementary Mathematical Analysis.
1st Yr:—3 lects., per wk., 2 terms. Mr. E. C. Irvine.

NUTRITION AND DIETETICS

40—Dietetics. A study of the principles of human nutrition.
4th Yr:—3 lects., 2 labs., per wk., 1st term. Miss Stickwood.

41—Diet Therapy. The function of nutrition as a curative and preventive factor in disease. Visits to hospital clinics and dietary departments.
4th Yr:—5 lects., 1 lab., per wk., 2nd term. Miss Stickwood.

42—Fundamentals of Nutrition. For description see Animal Husbandry Course 45 in the B.Sc. (Agr.) syllabus.
4th Yr:—3 lects., per wk., 1st term. Professor Crampton.

PHYSICAL EDUCATION

10—Physical Education will be included in the work of the first year, all students being required to attend a minimum of two hours weekly during the session. Opportunity is provided for participation of all students in archery, swimming, basketball, skating, hockey and badminton.

PHYSICS

Taken with B.Sc. (Agr.).

12—General Physics.
1st Yr:—3 lects., 1 lab., per wk., 2 terms. Dr. Rowles.

33—Biophysics.
3rd Yr:—2 lects., 2 labs., per wk., 1st term. Dr. Rowles.

PHYSIOLOGY

Taken with B.Sc. (Agr.).

30—Elementary Physiology.
3rd Yr:—3 lects., per wk., 2nd term. Professor Conklin.

TEXTILES AND CLOTHING

30—Construction of Clothing. Undergarments and dresses are made of cotton or linen and silk or wool.
3rd Yr:—2 lects., 1 lab., per wk., 1 term. Miss Britt.

40—Principles of Clothing Selection and Construction.

First Half Year:—A study is made of children's clothing, especially the problems of designing and fitting garments for high school girls. Lectures, readings and discussions.

Second Half Year:—Advanced course in dress-making and costume design. Lectures, readings and discussions.
4th Yr:—2 lects., 2 labs., per wk., 2 terms. Miss Britt.

41—Textiles and their Care. Chemical study of textile fibres, methods of laundering, stain removal and dry cleaning. Elective.
4th Yr:—2 lects., 1 lab., per wk., 1st term. Miss Hanke.

ZOOLOGY

Taken with B.Sc. (Agr.).

20—Elementary Zoology.
2nd Yr:—2 lects., 2 labs., per wk., 2 terms. Professor DuPorte, Mr. Whitehead and Dr. Morrison.

B.H.S. Course Examinations

(See page 61)

BOOKS

Students will be required to secure text-books for some of the courses. These may be obtained at the College, and $5.00 to $10.00 should cover the cost per year for the Homemaker Class, and $15.00 per year for the B.H.S. Course.

PUPIL DIETITIAN COURSE

A course in the Women's Residence is offered to degree graduates of accredited home economics schools. This course includes the following:—Work in department store-room taking charge of supplies; supervision work in Dining-Room; and executive work in Dietitian's Office. Opportunity is given for experience in the Housekeeping Department—care of rooms, linen, etc., also in the College Laundry. Students are enabled to attend classes in the School of Household Science in Institution Administration.

Room, board and laundry are provided.

Uniform Requirements:—Six white uniforms; six white aprons; shoes—white Oxfords with rubber heels.

Free Time:—One-half day per week and alternate Sundays.

THE SCHOOL FOR TEACHERS

By an agreement with the Government of the Province of Quebec, dated February 25th and 26, 1907, confirmed by an Act of the Legislature of the Province of Quebec, 7 Edward VII, 1907, chapter 26, it was provided that a school for the training of teachers for the schools under the control of the Protestant Committee of the Council of Education should be established and carried on at Ste. Anne de Bellevue in lieu of the McGill Normal School in Montreal, under the regulations of the Protestant Committee.

This institution is intended to give a thorough training to teachers, by instruction and training in the School for Teachers itself, and by practice in the practice schools; and the arrangements are of such a character as to afford the greatest possible facilities to students from all parts of the Province. The Protestant Central Board of Examiners for the Province of Quebec grants diplomas to teachers-in-training of this school, and to graduates of Canadian or other British universities who have received the necessary training.

Demonstration lessons, criticism lessons, and practice teaching are given in Macdonald High School, which is organized from Kindergarten to Matriculation classes. Variety of experience is obtained by supplementary practice in the Montreal Protestant schools and in rural schools of the Province of Quebec.

ANNOUNCEMENT FOR THE SESSION 1940–41

The thirty-fourth session of this school will begin on the fourth of September, 1940, and will close on the fifth of June, 1941.

The students are graded as follows:—

1.—*Elementary* Class.
2.—*Intermediate* Class.
3.—*Kindergarten* Class.

ENTRANCE REQUIREMENTS

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Education for the Province of Quebec will be admitted under conditions prescribed by that body, as hereinafter mentioned.

After receiving certificates of such admission, candidates accepted must send to the authorities of Macdonald College a certificate of vaccination as follows:—(a) Successful vaccination within seven years; or, (b) Immunity to vaccine after two recent unsuccessful vaccinations; such certificate of immunity to be good for five years from date.

BOOKS

Students will be required to secure text-books for some of the courses. These may be obtained at the College, and $5.00 to $10.00 should cover the cost per year for the Homemaker Class, and $15.00 per year for the B.H.S. Course.

PUPIL DIETITIAN COURSE

A course in the Women's Residence is offered to degree graduates of accredited home economics schools. This course includes the following:—Work in department store-room taking charge of supplies; supervision work in Dining-Room; and executive work in Dietitian's Office. Opportunity is given for experience in the Housekeeping Department—care of rooms, linen, etc., also in the College Laundry. Students are enabled to attend classes in the School of Household Science in Institution Administration.

Room, board and laundry are provided.

Uniform Requirements:—Six white uniforms; six white aprons; shoes—white Oxfords with rubber heels.

Free Time:—One-half day per week and alternate Sundays.

THE SCHOOL FOR TEACHERS

By an agreement with the Government of the Province of Quebec, dated February 25th and 26, 1907, confirmed by an Act of the Legislature of the Province of Quebec, 7 Edward VII, 1907, chapter 26, it was provided that a school for the training of teachers for the schools under the control of the Protestant Committee of the Council of Education should be established and carried on at Ste. Anne de Bellevue in lieu of the McGill Normal School in Montreal, under the regulations of the Protestant Committee.

This institution is intended to give a thorough training to teachers, by instruction and training in the School for Teachers itself, and by practice in the practice schools; and the arrangements are of such a character as to afford the greatest possible facilities to students from all parts of the Province. The Protestant Central Board of Examiners for the Province of Quebec grants diplomas to teachers-in-training of this school, and to graduates of Canadian or other British universities who have received the necessary training.

Demonstration lessons, criticism lessons, and practice teaching are given in Macdonald High School, which is organized from Kindergarten to Matriculation classes. Variety of experience is obtained by supplementary practice in the Montreal Protestant schools and in rural schools of the Province of Quebec.

ANNOUNCEMENT FOR THE SESSION 1940–41

The thirty-fourth session of this school will begin on the fourth of September, 1940, and will close on the fifth of June, 1941.

The students are graded as follows:—

1.—*Elementary* Class.
2.—*Intermediate* Class.
3.—*Kindergarten* Class.

ENTRANCE REQUIREMENTS

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Education for the Province of Quebec will be admitted under conditions prescribed by that body, as hereinafter mentioned.

After receiving certificates of such admission, candidates accepted must send to the authorities of Macdonald College a certificate of vaccination as follows:—(a) Successful vaccination within seven years; or, (b) Immunity to vaccine after two recent unsuccessful vaccinations; such certificate of immunity to be good for five years from date.

Whenever Macdonald College receives from the Protestant Central Board of Examiners the lists of candidates admitted to the various classes, the College authorities will communicate immediately with all accepted candidates regarding registration, the sending of the admission certificate, the vaccination certificate, and will forward a copy of the College announcement to those who have not already received one, together with directions regarding school uniform and other matters. Candidates who are accepted are, therefore, requested to withhold separate inquiries, pending receipt of such general advice from the College.

Candidates who have received admission certificates, but find themselves unable to attend the College, are requested to advise Dr. W. P. Percival, Department of Education, Quebec, Que., of that fact without delay.

MODE OF ADMISSION TO THE SCHOOL FOR TEACHERS

Any one desiring to take a course in the School for Teachers to qualify for teaching in the Province of Quebec, must make application for admission, for authorized forms of application for admission, and for all other information, to the Secretary of the Protestant Central Board of Examiners, Dr. W. P. Percival, Department of Education, Quebec, Que. Application for admission must be made **on or before July 20th.**

Candidates are advised to obtain and read carefully the circular entitled *Information for Candidates* issued by the Protestant Central Board of Examiners.

Candidates for any class must be British subjects, or must have begun the necessary proceedings to become such, and must furnish the certificates of age and of good moral character, as required by the regulations. They must also send a medical certificate on a special form obtainable from Dr. Percival. This must show to the satisfaction of the Central Board that the candidate is in good health and free from physical defects likely to interfere with his usefulness as a teacher.

All such candidates, before entering upon a course, must sign an agreement to teach in the Province of Quebec for at least three years after graduation.

Candidates for diplomas for teaching in the Province of Quebec must satisfy the requirements laid down by the Protestant Central Board of Examiners for entrance to the several courses of study in the School for Teachers.

Elementary Diploma. The examination for admission to the Elementary Class in the School for Teachers is the Departmental Examination of the Tenth Grade.

The course leading to the elementary certificate extends from September to the following June.

Candidates for this certificate should have entered their seventeenth

year before the first day of September, 1940; that is, they should have been born before the first day of September, 1924.

Intermediate Diploma. The examinations for admission to the class leading to the intermediate certificate are the High School Leaving or the University Matriculation Examinations, provided that the candidate has passed in ten papers as specified. The length of the course is from September to the following June.

The holder of an elementary certificate or diploma with professional training who has obtained a High School Leaving Certificate since receiving such certificate or diploma may be admitted to the Intermediate Class after Christmas to complete the course required for an intermediate certificate. For this purpose the examination for the High School Leaving Certificate may be taken in two parts.

Candidates for this diploma should have entered their eighteenth year before the first day of September, 1940; that is, they should have been born before the first day of September, 1923.

Kindergarten Class. The Kindergarten Director's Course is of one year's duration. For entrance to it there is required either: (a) An intermediate certificate or diploma; or (b) *In the case of Montreal students only*, a Kindergarten Assistant's certificate.

Candidates for this diploma are admitted only upon a report of the Dean of the School for Teachers to the effect that they possess the necessary special fitness for kindergarten work.

Special Conditions

The Central Board of Examiners has the right to admit to any class, in exceptional cases, persons whose qualifications may be insufficient for entrance. Any person who applies for admission under special circumstances should give on the back of his application form a full statement of his reasons for asking special consideration.

For any grade the Central Board of Examiners may grant diplomas to candidates in special cases upon any examination specifically indicated by it.

The Central Board of Examiners has power to limit the number of admissions to the School for Teachers.

BURSARY REGULATIONS

Applying to those who enter the School for Teachers in September, 1940

58. Bursaries of one hundred dollars each shall be paid from the released Normal School fund to such teachers-in-training for elementary

diplomas in the School for Teachers as shall comply with the regulations in regard thereto, as follows:—

(a) Candidates must promise by a witnessed writing to teach three years in some rural elementary school in the Province of Quebec.*

(b) Candidates must enter into a joint obligation with a parent or guardian to reimburse to the Superintendent of Education the amount of the bursary received should they not, within five years, fulfil their said obligation to teach.

(c) No candidate may receive a bursary for two years, but, in case of failure in one year, he may receive the balance of the bursary on the successful completion of his course in a subsequent year.

(d) Candidates for bursaries shall make their applications for the same to the Secretary of the Central Board of Examiners when applying for admission to the School for Teachers.

(e) It is further provided that, in addition to the payment of the foregoing bursaries, similar bursaries shall be paid to such teachers as having not signed the required promise to teach, nevertheless have fulfilled the obligation entered into by others to teach three years in some rural school in the Province of Quebec.

59. (a) The bursaries to teachers-in-training shall be paid in two equal instalments, in December and in June, to those only who are certified by the Dean of the School for Teachers to have pursued their course of studies with reasonable diligence, and to this end the Secretary of Macdonald College shall draw upon the Superintendent of Education, make the individual payments, and render an account to the Superintendent.

(b) The bursaries to teachers who come under the provisions of paragraph 58 (e) shall be divided into three equal portions and shall be paid only at the end of each year of successful teaching, but in no case shall they be paid after five years from the date of the diploma.

Although students who take the course leading to an intermediate certificate do not receive a bursary during attendance at the School for Teachers, they may do so under this regulation and regulation 58 (e) after they shall have qualified by teaching in some rural school.

(c) A report shall be made to the Protestant Committee yearly in the month of September by the Central Board of such facts as the Committee may require from time to time, in regard to the allocation of the bursaries.

(d) The Superintendent of Education may release for good and sufficient cause a teacher from any obligation to teach three years in the Province of Quebec, but this release shall not remove the obligation to return any bursaries that may have been received.

*The elementary department of an Intermediate or of a High School is not included in this term.

For official form of certificate of teaching required under paragraph (e) No. 58, and any other information, apply to Dr. W. P. Percival, Department of Education, Quebec, Que.

TRAVELLING EXPENSES

On being awarded an elementary, intermediate, or kindergarten certificate, each teacher-in-training at the School for Teachers residing 200 miles or more from Macdonald College will be paid by the Secretary of Macdonald College, out of the funds provided by the Government, the sum of five cents for each mile that his home, in the Province of Quebec, is distant from Macdonald College.

TEACHERS' DIPLOMAS

The Superintendent of Education under the provision of Article 484 of the Education Act, and the Protestant Central Board of Examiners under Article 10 of the Regulations of the Protestant Committee, alone have the power to grant certificates and diplomas valid for Protestant schools.

To graduates of training courses, interim certificates shall be granted of the following grades, namely:—kindergarten, elementary, intermediate, and high school. The elementary certificate is primarily intended to permit the holder to teach in rural elementary schools.

Interim elementary, kindergarten and high school certificates shall be exchanged for permanent diplomas of the respective grades when evidence of successful teaching for two years shall have been submitted to the Director of Protestant Education.

Interim intermediate certificates shall be exchanged for permanent intermediate diplomas when evidence of successful teaching for two years shall have been submitted to the Director of Protestant Education as well as of the successful completion of one session at an approved summer school.

Holders of interim certificates who, in the opinion of the Inspector, shall have taught successfully shall receive from him statements to that effect. When teachers have obtained two such recommendations and have satisfied summer school requirements that may be demanded of them they shall send the statements together with their interim certificate to the Department of Education where they will be exchanged for permanent diplomas.

Under the regulations of the Protestant Committee, certificates and diplomas of any grade are given only to teachers who have taken professional training.

The examinations for elementary, kindergarten, and intermediate certificates shall be the sessional examinations of the School for Teachers, together with reports on ability to teach and to govern, rendered by the Dean of the School.

For all examinations for such certificates one-half of each examination paper may be set by the Central Board of Examiners, and such tests of ability to teach and to govern must be met as may be indicated by that Board. All results, including examination questions and answers, shall be submitted to the Board by the Dean of the School for Teachers.

Advanced elementary and advanced intermediate diplomas are granted after successful attendance at Summer School for two and three sessions, respectively.

The examinations for first-class High School certificates shall be the examinations in Arts and in Education of Canadian and other approved universities.

Graduates and undergraduates in Arts who are candidates for High School diplomas must take the lectures in Education provided by the universities or the School for Teachers; and during their third and fourth years, or their post-graduate year, must teach the fifty half-days required by regulation, as directed. The months of September, May, and June are set apart for this practice-teaching.

INTERMEDIATE DIPLOMA PRIVILEGES

For information regarding exemptions from matriculation examinations and other privileges granted to holders of intermediate diplomas, apply to the Registrars of the Universities.

ELEMENTARY CLASS STUDYING FOR AN ELEMENTARY CERTIFICATE

The course for the above certificate falls naturally into the following divisions: (a) A general review of subjects taught in rural schools; (b) Special methods of teaching the following—English, Arithmetic, French, History, Geography, Nature Study and Agriculture, Writing, Drawing, Hygiene and Physical Training, Scripture, Music, Primary Methods; (c) Courses in the Principles of Education, Educational Psychology, Tests and Measurements, School Management and School Law; (d) Observations and practice teaching. A great deal of emphasis will be laid on the ability displayed by teachers-in-training in this phase of their work.

FOR THE KINDERGARTEN DIRECTOR'S CERTIFICATE

The Kindergarten Director's Course extends for one year. For entrance to it candidates must possess either : — (a) An intermediate certificate or diploma; or (b), *In the case of Montreal students only*, a Kindergarten Assistant's certificate.

The candidates must also have additional qualifications, such as love of children, a good voice, musical ability, and an engaging manner.

To enter upon the course leading to a Kindergarten Assistant's certificate, given in co-operation with the Protestant Board of School

Commissioners of Montreal, the candidate must have a School Leaving or Matriculation certificate, and must undertake to follow the two years' course of lectures and practice work.

In the Kindergarten Director's Course, students will be employed in the practical work of the Kindergarten during the forenoon of each school day, and will follow a selected course of practical and professional training every afternoon.

Among the subjects taken will be Principles of Education, History of Infant Education, School Management and Law, Kindergarten Theories, Nature Study, Music, Art Work, Hand Work, Physical Training, Games and Songs of the Kindergarten, Stories and Story-telling.

Special attention will be paid to transition work, so that it is hoped those who complete the work of this Class will be specially fitted for the difficult task of training young children effectually in the rudiments of ordinary school work in succession to the work of the Kindergarten, bridging over the chasm that too frequently separates the Kindergarten from the Primary Class.

INTERMEDIATE CLASS STUDYING FOR THE INTERMEDIATE CERTIFICATE

Regular courses of lectures in the History of Education and in the Principles of Education, School Management and Law, will continue throughout the year. In the specific subjects of Agriculture; Elementary Algebra; Arithmetic; Art and Manual Training; English; French; Geography; Geometry; History; Music; Nature Study; Needlework; Physical Culture; Physiology and Hygiene, the same general methods will be employed as in the class studying for the elementary certificate, and just as in it (see page 88) observation and practice in teaching will receive particular attention.

DESCRIPTION OF COURSES

AGRICULTURE

(See GEOGRAPHY and NATURE STUDY, pages 91, 92)

ART AND MANUAL TRAINING

Course 1—Intermediate Class. The Art and Manual Training prescribed for elementary and intermediate schools.

Course 2—Elementary Class. Work suitable for rural schools.

Course 3—Kindergarten Class. Work suitable for younger children: also advanced Art in a variety of media.

EDUCATION

Course 1—History of Education. Intermediate Class. Educational theories and practices from Socrates to modern times.

Course 2—Educational Psychology. Intermediate Class. The main aspects of Psychology as they are of direct practical value in the art of teaching.

Course 2a—Mental Hygiene. Intermediate Class. Training for exceptional children.

Course 3—Principles of General Method. Intermediate Class. Various types of lessons, methods and devices.

Course 4—School and Class Management. Intermediate Class. Various types of schools, their organization, classification and management, from the smaller routine items to the larger problems of time-table construction, discipline, and control.

Course 5—School Law and Regulations. Intermediate Class. The school law and regulations affecting teachers and pupils.

Course 6—Education, Principles of General Method. Elementary Class. The fundamental principles underlying all special methods, organization of subject matter, the planning of recitations, various types of lessons.

Course 7—Educational Psychology. Elementary Class. Those aspects of Educational Psychology which are of importance to the teacher.

Course 7a—Tests and Measurement. Elementary Class. The construction and use of new type tests in the class room.

Course 8—Mental Hygiene. Elementary Class. See Course 2a.

Course 9—School and Class Management. Elementary Class. Same as Course 4 except special emphasis will be laid on rural organization, etc.

Course 10—School Law and Regulations. Elementary Class. Same as Course 5.

Course 11—Seminar in Practice Teaching. Elementary and Intermediate Classes. Criticism and discussion of actual lessons taught by students in the Practice School and in Montreal schools.

Course 12—Principles and Practice. Kindergarten Directors' Class. Various types of Kindergarten theories and practices.

Course 13—History, Theory and Practice of the Kindergarten. Kindergarten Directors' Class. Development of modern methods and current practice.

Course 14—Theory and Practice of the Kindergarten. Kindergarten Assistants' Class. This course is given to the Kindergarten Assistants' Classes in the High School for Girls, Montreal.

Course 15—Child Psychology. Kindergarten Assistants' Class. This course is given in the High School for Girls, Montreal.

Course 16—Educational Psychology, 3rd Year B.H.S. Students. See page 78.

Note:—For courses in Education required for the High School diplomas, see the Announcement of the Faculty of Arts and Science, McGill University.

ENGLISH

Course 1—Intermediate Class. Scholarship and methods in Literature, Composition and Grammar.

Course 2—Elementary Class. Review and methods suitable for rural schools.

FRENCH

Course 1—Intermediate Class. Pronunciation, review, methods, and devices for teaching Oral French, as found in the *Oral Lessons in French, Teacher's Manual* and accompanying *Readers* Parts I to V. An individual oral examination is required from all students.

Course 2—Elementary Class. Lessons suitable for a rural school. Students are required to provide themselves with copies of *Oral Lessons in French, Teacher's Manual* and corresponding *Readers.*

Opportunities for practice are afforded by the constant use of French in the class room and at the Cercle Français where meetings are conducted entirely in French. The programmes of the Cercle Français consist of songs, games, impromptu speeches, short plays, illustrated lectures and an occasional *causerie* by well-known French speakers.

GEOGRAPHY

Course 1—Intermediate Class. Review of fundamental principles, detailed studies, and methods of teaching.

Course 2—Elementary Class. Scholarship and methods suitable for rural schools.

Intermediate and Elementary students are requested to provide themselves with a copy of Frye and Gammell's *Geography*, Thralls and Reeder, "*Geography in the Elementary School*" (Rand McNally), Stamp, "*The World*" (Longman's Green & Co.) as well as a *Geography Note Book* published by Copp Clark Company. The last three can be obtained at the College Book Shop.

HISTORY

Course 1—Intermediate Class. Methods of teaching the Course of Study.

Course 2—Elementary Class. Methods adapted to rural school conditions.

Intermediate and Elementary students are requested to provide themselves with a copy of Bengay's, "*A History of Canada*" (Nelson), as

well as a *Canadian History Note Book*, published by Copp Clark Company. Both can be obtained at the College Book Shop.

MATHEMATICS

Course 1—Intermediate Class.

a. Arithmetic. Present-day movements and methods of teaching Arithmetic.

b. Algebra and Geometry. Methods for teaching the Course of Study for Grade IX.

Texts Required:—Morton's *Teaching Arithmetic in the Intermediate Grades* (Revised edition); Hall and Knights' *Elementary Algebra*, Hall and Stevens' *A School Geometry*.

Course 2—Elementary Class. Arithmetic for the rural ungraded school.

Texts Required:—Morton's *Teaching Arithmetic in the Elementary School, Vol. 2, Intermediate Grades* (Revised edition).

MUSIC

Course 1—Kindergarten Class. Methods and music suitable for the Kindergarten.

Course 2—Intermediate Class. The Course of Study and methods of teaching it.

Course 3—Elementary Class. Music in rural schools.

Music Certificates. All students must devote individual study towards preparation for one of the music certificates, issued by the Protestant Central Board of Examiners. The certificates are in four grades, viz.:—Preliminary, Junior, Senior and Advanced. Details of the necessary requirements will be found posted at all times in the College Music Room.

NATURE STUDY

Course 1—Intermediate Class. Methods of teaching natural topics on a seasonal basis according to local environment.

Course 2—Elementary Class. Methods and suggestions suitable for rural teachers.

NEEDLEWORK FOR WOMEN

Construction of simple, attractive and useful articles employing the use of various hand stitches and the sewing machine. A study of materials and their uses, properties of the various fibres and simple tests for their identification. One period a week for one term.

PHYSICAL EDUCATION

Intermediate and Elementary Classes.

The authorized course is the *Syllabus of Physical Training for Schools, 1933*, supplemented with indoor and outdoor games, etc.

Students must wear the regulation costume for gymnastic work. See page 28.

Students wishing to swim must provide themselves with woollen bathing suits of guaranteed fast dye.

Strathcona Trust Certificate

Students in the School for Teachers must qualify themselves to pass the examinations for Strathcona Trust Certificates, and be able to teach the *Syllabus of Physical Exercises, 1933*, approved by the Strathcona Trustees and adopted for the province:—Grades A and B for men and Grade B for women.

Trophies, Cups and Medals for Women. See page 98.

PHYSIOLOGY AND HYGIENE

Course 1—Intermediate Class. Personal and School Hygiene; methods of teaching the Course of Study.

Course 2—Elementary Class. Conditions and needs of rural schools, in relation to Personal and School Hygiene.

PRIMARY METHODS

Course 1—Intermediate Class. Junior children and the approach to Language, Reading, Spelling, Poetry, Story, Geography, History, Writing and Scripture.

Course 2—Elementary Class. Methods and suggestions for the work in the junior and beginners' classes in a rural school.

A practical course is given in the preparation of classroom and individual material.

Students are advised to bring smocks, scissors, penknife; other material may be obtained in the College Book Shop.

RELIGIOUS INSTRUCTION

Teachers-in-training will be required to state with what religious denomination they are connected, and to meet weekly for Religious Instruction in accordance with the scheme provided from time to time by the Teachers' Training Committee and approved by the Protestant Committee. Every Thursday after four o'clock is at present assigned for this purpose. In addition to punctual attendance at weekly Religious Instruction, each student will be required to attend public worship at least once every Sunday.

SCRIPTURE

Intermediate, Elementary, and Kindergarten Classes.
The course of study, moral training and opening exercises.

BOOKS

See also page 26.

Students should bring with them all books in their possession which may be of service in preparing to teach elementary, intermediate or High School classes, and also books on the professional training of teachers; other necessary books may be procured at Macdonald College.

Textbooks in the various classes are announced by each professor or lecturer at the beginning of the session, and are naturally subject to change from time to time unless specified under the various courses.

THE MACDONALD HIGH SCHOOL

The Demonstration and Practice School is organized as a Protestant High School, and in general subjects follows the courses prescribed by the Protestant Committee of the Council of Education for the kindergarten, elementary, intermediate, and High School grades of the Province. Special courses are also given by specialists in Music, Physical Training, Cooking, Sewing, Manual Training, Physics, and Chemistry.

The School will open Tuesday, September 3rd.

There are no fees for Protestant children from the Protestant School Municipalities of Ste. Anne de Bellevue, Ste. Anne du Bout de l'Isle, Senneville, and Vaudreuil—Dorion, but for all other pupils, who are accepted if there is accommodation, there is a fee of $70.00 per pupil per year for all grades. This fee is payable *strictly in advance*, by four instalments of $17.50 each to the Secretary, Macdonald College, Que., on September 1st, November 1st, February 1st, and April 1st, respectively.

There is no residence accommodation for pupils attending the High School.

All candidates for admission to the High School must produce a medical certificate of vaccination as follows:(a)Successful vaccination within seven years, or, (b) Immunity to vaccine after two recent unsuccessful vaccinations—such certificate of immunity to be good for five years from date.

See also page 13.

SCHOLARSHIPS AND PRIZES

FACULTY OF AGRICULTURE

Diploma Course

The Fisher Trust Fund, in memory of the late Honourable Sydney A. Fisher, formerly Member of Parliament for Brome County and Minister of Agriculture, Canada, offers for the session 1940–41, two agricultural scholarships of $75.00 a year each, tenable at Macdonald College for two years, for the Diploma Course in Agriculture, from November 1st, 1940, to March 31st, 1941, on the following conditions:—

1. The candidates must be sons of farmers in the County of Brome, co-operating in farm activities during the period of their college course.

2. The candidates must be at least sixteen years of age.

3. The candidates must have passed at least grade IX of the High School Course.

4. These scholarships will be continued from term to term only upon favourable reports from the Dean of the Faculty of Agriculture.

Applications must be sent, on or before the 1st of October, 1940, to the Chairman of the Fisher Trustees, Edward Caldwell, Knowlton, Que.

Lieutenant-Governor's Medal. His Honour the Lieutenant-Governor of the Province of Quebec, gives annually a bronze medal, which is awarded to the student who takes the highest percentage in General Proficiency in the First Year of the Diploma Course.

Minister of Agriculture's Medals. The Honourable the Minister of Agriculture of the Province of Quebec, offers annually two bronze medals in connection with the Diploma Course, Second Year Class, to be presented to the students ranking first in the Dairy Farming and in the Fruit Farming Groups respectively.

B.Sc. (Agr.) Course

Nova Scotia College of Agriculture Scholarship—Macdonald College offers a scholarship of two years' tuition (value $100.00) to the student of the Nova Scotia College of Agriculture obtaining the highest standing in the work of the Second Year of the degree course in that College.

The Daughters of the Empire Bursary—As a recognition of the value of

agricultural education in their Province and Country, the Imperial Order of the Daughters of the Empire, Quebec Provincial Chapter, gives a bursary of $200.00, tenable during the third and fourth years of the B.Sc. (Agr.) course, to the British student who obtains the highest marks in the final examinations of the second year. The bursary is payable to the winning student in two instalments of $100.00 each at the beginning of his third and fourth years respectively.

Governor General's Medal—His Excellency the Governor General of Canada donates a bronze medal to be awarded to the second year student who ranks highest in General Proficiency in first and second year work.

Lieutenant-Governor's Medal—His Honour the Lieutenant-Governor of the Province of Quebec gives annually a silver medal, which is awarded to the student who takes the highest standing in General Proficiency in the first year of the B.Sc. (Agr.) course.

The Stern Cup—Sir Edward D. Stern, Fan Court, Chertsey, Surrey, England, has donated a silver challenge cup, which is held for one year by the student who makes the highest aggregate in Stock Judging in the final year of the subject.

The Cutler Shield—Mr. Garnet H. Cutler, Professor of Agronomy, Purdue University, Lafayette, Indiana, the first lecturer in Cereal Husbandry, Macdonald College, has donated a bronze challenge shield, which is held for one year by the student majoring in Agronomy, who makes the highest aggregate in the final year.

The Conklin Trophy—Dr. Raymond L. Conklin gives a trophy to be awarded to the student in any year of the degree course who obtains the highest percentage of total marks, and who, during the same year, has won a place on the College (Canadian) Rugby team and on one other team sport. The trophy will be awarded only once to any individual.

The Lochhead Memorial Prize—In memory of her late husband, William Lochhead, B.A., M.Sc., the first Professor of Biology in Macdonald College, Mrs. Lochhead has established by an endowment of $400.00, a prize to be awarded to the student, majoring in Entomology, who takes the highest standing in the fourth year, the prize, in value equal to the proceeds of the endowment for one year, to be in books selected by the winner with the approval of the Head of the Department of Entomology.

The Dr. John L. Todd Gymnastic Medals for Women. See page 101.

The Janet Morison Robb Bursary for Women. See page 100.

NOTE:—No prize will be awarded to any student, in any of the classes, whose percentage of marks is below seventy, unless by special action of the Faculty.

B.H.S. Course

His Honour the Lieutenant-Governor of the Province of Quebec donates two medals:

(1) *A silver medal,* to be awarded to the student who ranks highest in the third year of the B.H.S. Course.

(2) *A bronze medal,* to be awarded to the student who ranks highest in the second year of the B.H.S. Course.

The Montreal Housewives' League gives a prize for the best results secured in the conservation of food as demonstrated in home methods of canning fruits and vegetables. The prize is open to the graduating class in the B.H.S. Course.

The Frederica Campbell Macfarlane Scholarship.—A scholarship has been donated by the Quebec Women's Institutes in memory of the late Frederica Campbell Macfarlane, graduate in Institution Administration, 1912, Superintendent of Quebec Women's Institutes from 1913 to 1919. This scholarship is of the value of $50.00, is open only to students from a rural district of the Province of Quebec, and is awarded to the student in any of the first three years of the B.H.S. Course who obtains the highest percentage of marks possible in the final examinations.

The Dr. John L. Todd Gymnastic Medals for Women (See page 101).

The Janet Morison Robb Bursary for Women (See page 100).

UNIVERSITY SCHOLARSHIPS

In addition to the foregoing, Degree students at Macdonald College are eligible to apply for the following University scholarships. Particulars will be found in the announcement of Scholarships, Bursaries, Prizes, Medals and Loan Funds, obtainable from:—The Registrar, McGill University, Montreal, Que.

Ottawa Valley Bursaries,
The Isabella C. MacRae Scholarship,
Bnai Brith Bursaries,
Leonard Foundation Scholarships,
The Christie-Storer Chapter Scholarship.
Khaki University and Y.M.C.A. Memorial Scholarship Fund.

Homemaker Course

His Excellency the Governor-General of Canada donates a bronze medal to be awarded to the Homemaker student who ranks highest in General Proficiency.

The Montreal Local Council of Women donates a prize in books to the

value of $10.00 to be awarded to the student of the Homemaker Course attaining the highest standing in practical subjects.

The Dr. John L. Todd Gymnastic Medals for Women. See page 101.

The Janet Morison Robb Bursary for Women. See page 100.

SCHOOL FOR TEACHERS

Prizes and Medals

His Excellency the Governor-General of Canada gives a bronze medal to the student who passes the best final examination in the Art of Teaching, whether in the Elementary Class, the Kindergarten Class, or the Intermediate Class.

His Honour the Lieutenant-Governor of the Province of Quebec gives annually a silver medal and a bronze medal. These medals are awarded to the students who take the highest standing in the written examinations, in the Intermediate and Elementary Classes respectively.

The Prince of Wales medal will be given to the teacher-in-training who takes the highest aggregate of marks in the Intermediate Class.

The Superintendent of Education gives annually a medal to the teacher-in-training who stands second in the Intermediate Class. He also gives a prize in books to the student of the Intermediate Class who ranks highest in French.

The J. C. Wilson prize was provided by bequest of $1800.00, of the late J. C. Wilson. The proceeds of the bequest for one year will be given to the teacher-in-training who takes the highest aggregate of marks in the Elementary Class.

Le Comité de l'Alliance Française de Montréal offers a silver medal in the Intermediate Class, and a bronze medal in the Elementary Class, to the English-speaking student who in each class takes the highest marks in French.

The Right Reverend Arthur Carlisle, D.D., LL.D., Bishop of Montreal, gives annually two prizes in books, as follows:—To the students in the Intermediate and Elementary Classes, who take the highest standing in Scripture.

The Association of Protestant Women Teachers of Montreal gives annually a prize to the student of the Intermediate Class who takes the

highest standing in School Management and Principles and History of Education.

The Dr. John L. Todd Gymnastic Medals for Women. See page 101.

The Janet Morison Robb Bursary for Women. See page 100.

Milton L. Hersey, M.A.Sc., LL.D., a member of the Council of Education, Que., has established, by an endowment of $250.00, a prize in the Intermediate Class, and also in the Elementary Class; to the teacher-in-training who takes the highest standing during the year in Nature Study and Elementary Agriculture.

The Honourable Jacob Nicol, K.C., M.L.C., D.C.L., a member of the Council of Education, Que., gives a prize in books to the teacher-in-training of the Elementary Class who takes the second highest aggregate of marks.

The Outremont Protestant Teachers' Association gives annually a prize to be awarded to the student in the Elementary Class who takes the highest standing in School Management and Principles of Education.

"The Gardner Kneeland Memorial Prize," was established by an endowment of $200.00 by the late Professor A. W. Kneeland, M.A., B.C.L., in memory of his father. The proceeds of the endowment for one year is awarded to the student of the Intermediate Class who ranks highest in English.

The Frances Willard Women's Christian Temperance Union, Westmount, Que., gives annually a prize of ten dollars to the student of the Intermediate Class who takes the highest standing in the subject of Physiology and Hygiene.

The Association of Protestant Teachers of Coteau St. Pierre gives annually a prize to the student of the Intermediate Class who takes the highest standing in the subject of History.

A. Kirke Cameron, a member of the Council of Education, Que., gives annually a prize of ten dollars to the student of the Intermediate Class who takes the highest standing in Primary Methods.

"The Dr. S. P. Robins Memorial Prize," was established by an endowment of $500.00, by Miss Lilian B. Robins, B.A., former lecturer in Mathematics, School for Teachers, Macdonald College, in memory of her father, who was first Professor of Mathematics, 1857 and, later, Principal of McGill Normal School, Montreal, until 1907. The proceeds of the endowment for one year will be awarded to the student of the Intermediate Class who obtains an Intermediate diploma, and is the most deserving student from the point of view of personality, professional attainments, and home circumstances.

The Honourable Gordon W. Scott, M.L.C., a member of the Council of Education, Que., gives annually a prize to the value of ten dollars to the

student of the Elementary Class who takes the highest standing in English.

NOTE:—Prizes are awarded only to students who obtain diplomas in the specified class.

Sarah Emma Hill Scholarship

The Sarah Emma Hill Scholarship, endowed by the late Mrs. Sarah Emma Hill, of Stanstead, Que., of the present value of about $100.00, will be awarded each year to a student of the Intermediate Class in the School for Teachers "where assistance is required,—this money to be used by the Trustees of Macdonald College according to their best judgment."

Candidates for this scholarship are requested to make written application to the Dean of the School for Teachers, on or before September 30th, giving full particulars of the grounds upon which their applications are based, and to provide letters supporting their claims from two responsible persons.

In making the award, consideration will be given to scholarship and professional ability.

Ella Bryson Scholarship

This scholarship was bequeathed by the late Miss Ella Bryson of Fort Coulonge, Que., to the Women's Institute of Fort Coulonge, the proceeds of which are to be used as a scholarship at Macdonald College for a student from the Fort Coulonge Protestant School taking a course in the School for Teachers. Candidates for this Scholarship are requested to make application to the Dean of the School for Teachers on or before September 30th each year, and must be supported by recommendations from the Women's Institute of Fort Coulonge.

I. O. D. E. Bursary

The Municipal Chapter of Montreal Imperial Order Daughters of the Empire awards annually a bursary of $350.00 in the School for Teachers. This bursary is open to all girls of the High Schools in the municipality of Montreal and vicinity, including Lachine, Longueuil and St. Lambert, and will be awarded by a committee of selection chosen by the Order. Application forms can be obtained from the Principals of the High Schools concerned, or from the Educational Secretary of the Municipal Chapter of Montreal Imperial Order Daughters of the Empire—Mrs. F. M. Stevens, 493 Argyle Avenue, Westmount, Que.

OPEN TO ALL WOMEN STUDENTS

The Janet Morison Robb Bursary for Women was established, by an endowment of $2,000.00, by the late Honourable James A. Robb, formerly

Member of Parliament for Chateauguay-Huntingdon and Minister of Finance, Canada, in memory of his deceased daughter, Janet Morison Robb, wife of Hugh Harvie Donald. The annual bursary will be the proceeds of the endowment for one year.

Preference will be given to women students resident in either of the counties of Chateauguay-Huntingdon, or Beauharnois, who are daughters of widowed mothers of limited or moderate means, or daughters of widowers in similar financial circumstances, or daughters of disabled Canadian soldiers who have seen active service.

Candidates for this bursary are requested to make written application, addressed to the Secretary, Macdonald College, Que., *on or before 15th April*, giving full particulars of the grounds upon which their applications are based, and to provide letters from two responsible persons in support of their claims.

Dr. John L. Todd Gymnastic Shield:—Donated by Dr. Todd for annual intersection gymnastic competition.

Dr. John L. Todd Basketball Trophy:—Donated by Dr. Todd for annual intersection basketball competition.

Dr. John L. Todd Gymnastic Medals:—Four medals—gold, silver, bronze, and nickle, donated annually by Dr. Todd for annual individual gymnastic competition.

1913-14 Baseball Cup:—Donated by the Girls' Athletic Association, 1913-14, for annual intersection base-ball competition.

Lady Constance Stewart-Richardson Swimming Cups for General Excellence and General Proficiency in Swimming and Diving:—Donated by Lady Constance Stewart-Richardson for annual individual competition.

The Badminton Challenge Cup:—Donated by the Girls' Athletic Association, 1928-29, for annual individual competition.

NOTE:—Only students taking a full year's course at the College are eligible to compete for the swimming cups, gymnastic medals, and the badminton cup.

THE MACDONALD COLLEGE LIBRARY

The library and reading room are centrally located in the Main Building, occupying the ground floor of an annex leading off the main hall. Seventy-six readers can be accommodated in the reading room; and in a series of alcoves there are reference works and text-books on the work of the various departments.

The present stack-room has accommodation for about 25,000 volumes, and the choice of books has been directed towards bringing together the best of modern literature on subjects of the curriculum of the College.

The Walter M. Stewart Collection includes biography, history, travel, science, etc. This collection has been purchased with sums of money given by Walter M. Stewart, of Montreal.

EXTENSION SERVICE IN THE FACULTY OF AGRICULTURE

AGRICULTURE

Departmental Services. The services of the various departments of Macdonald College are always available for the advancement of the agricultural and home interests of the Province of Quebec. Personal interviews at the College and correspondence are invited.

Judges, Speakers, Educational Exhibits. Macdonald College, upon request, and when convenient arrangements can be made, will supply judges for exhibitions and speakers for meetings held under the auspices of agricultural societies, farmers' clubs, women's institutes, livestock, poultry and dairy associations, seed growing and horticultural societies and kindred organizations and, in some cases, will provide educational exhibits.

Visitors to the College from the Farming Community of Quebec are always welcome, from 9 a.m. until 5 p.m., excepting on Sundays, Saturday afternoons, and public holidays.

Farmers' Excursions to the College. Excursions organized by agricultural societies, farmers' clubs, and similar bodies, are cordially invited to the College in the month of June to inspect the work in progress in the various departments, the main farm, field crops, orchards and vegetable gardens, the greenhouses, the poultry plant, the dairy, and the scientific laboratories, to see for themselves the experimental and demonstration work and to ask questions in regard thereto. An opportunity is also given to inspect the student residences, the dining-room, the gymnasia, and other parts of the buildings, and thereby to understand to some extent the conditions of student life at the College.

When arrangements are made in time, organized excursions will be provided at a nominal charge with a luncheon of sandwiches, bread and butter, cheese, and hot tea; or, if preferred, excursionists may bring their own lunch baskets, the College providing tea. In order to provide for the convenience and comfort of such excursionists, advice should be sent in advance as to the hours of arrival at and departure from the College, and as to the number of excursionists to be expected. Address:—The Dean of the Faculty of Agriculture, Macdonald College, Que.

Specimens for Examination. Please note that plants, seeds, insects, and similar specimens sent to the College for identification or examination, should be prepaid if sent by express, and attached thereto should be a tag containing the name and the address of the sender, and

full particulars of the material sent. Parcels sent by parcel post should also be similarly tagged, in order that the material may be submitted to the department suited to make the examination.

HOUSEHOLD SCIENCE

Questions relating to household subjects will be answered.
Address:—The Director of the School of Household Science, Macdonald College, Que.

THE UNIVERSITY LIBRARY

G. R. Lomer, M.A., Ph.D., University Librarian

The University Library is under the general management of a Committee of Senate.

The several libraries of the University now contain over 450,000 volumes and 45,000 pamphlets, considerable collections of maps and photographs, and a number of the rarer and more costly monographs and serials which are indispensable for purposes of research. The Library now receives over 1,350 periodicals, Government publications and transactions of various literary and scientific societies.

Among the special collections possessed by the library may be mentioned the Mendelssohn Choir Memorial Collection of works on Music, the T. D. King Collection of Shakesperiana, the Redpath Historical Collection, and the Collection of Canadiana.

The Blackader Library of Architecture has been established in honour of Captain Gordon Home Blackader, B.Arch. (McGill). The Wood Library of Ornithology was presented by Colonel Casey A. Wood, M.D., LL.D., as a special research collection and reference library. The Blacker Library of Zoology, presented by Robert Roe Blacker and Nellie Canfield Blacker, is a comprehensive reference library on this special subject. In addition to standard works, it includes a number of monographs and an extensive collection of reports of scientific voyages and periodicals. It is supplemented by the Lyman Collection of books on Entomology. The Faculties of Medicine (including the Bibliotheca Osleriana), Law and the Royal Victoria College, maintain libraries in their respective buildings; and there are Departmental Libraries in Engineering, Chemistry, Physics and Botany.

The Travelling Libraries of McGill University contain, each, from thirty to forty carefully selected volumes and are sent, on application, and on payment of a nominal fee of $4.00, to schools, to country libraries, to reading clubs, and to small communities which possess no public library. Pictures, lantern slides and lectures are also supplied by this department. Provision has also been made for the supply of books by mail to graduates of the affiliated theological colleges and to ministers who have not the advantage of local libraries.

With the Library is affiliated the University Book Club, which supplies its members with standard, important and recent publications and makes a substantial annual contribution of books to the Library.

The Library maintains a museum, open to the public, with a permanent exhibition illustrating the development of the Book Arts, and numerous temporary exhibits are shown in the Gallery of the Reading Room.

UNIVERSITY MUSEUMS

1. Peter Redpath Museum.

The Peter Redpath Museum, a dignified building in the Neo-Greek style, situated between the University Library and the Arts Building, was erected by the donor whose name it bears and was handed over to the University in 1882, the architects being Hutchison and Steele. It is the only building in the University solely designed for museum purposes. It contains, on three floors, a great variety of museum material, the most important collections being the paleontological, the mineralogical, and the zoological, and a condensed exhibit of economic geology. Curator, T. H. Clark; Associate Curator, J. D. Cleghorn, (on war service).

2. McCord National Museum.

The McCord National Museum is housed in a building adjacent to the campus, on the north side of Sherbrooke Street. Eleven rooms, the hall and the passages are occupied by the collections, which consist of articles illustrating the history and social life of Canada, the bulk of which were presented to the Univesity in 1919 by David Ross McCord, Honorary Curator until his death. Subject to certain life interests, he bequeathed the major part of his estate to the University "as an Endowment Fund for the maintenance and development of the McCord National Museum." The museum is temporarily closed. Acting Secretary, E. L. Judah.

3. Library Museum.

The Library Museum is housed in a toplighted upper floor of the south wing of the Redpath Library. It contains in table and wall cases a series of exhibits (inscribed clay tablets, papyri, mss. and printed books) illustrating the history of writing and of the book from the first millennium B.C. (in Egypt and Babylonia) onwards. Museum talks are given free to students, school children and visitors. In the gallery above the Reading Room, special exhibits and groups of objects, books, and pictures of general interest are set out and are changed from time to time. An alcove facing the entrance of the Library is utilized as a display case for weekly exhibits of items of topical interest. Curator, G. R. Lomer.

4. Ethnological Museum.

This at present occupies the ground floor of the Medical Museum in the Medical Building. It contains the important ethnological material removed from the Peter Redpath Museum, together with ethnological material from other sources, mainly Canadian Indian. There is in addi-

tion the Garstang loan collection, illustrative of Egyptian culture through four millennia. The arrangement of the ethnological material is geographic. Curator, E. L. Judah.

5. In addition to the above there are other collections and exhibits of a specialized nature, ordinarily open only to students but to which access may be gained by application to the Curator concerned. These include the Anatomical, Medical, and Pathological Museums, the Museum of Hygiene, the Rutherford Collection of Experimental Physics, the Botanical, Zoological, and Architectural collections, and the Peterson Coin collection. At Macdonald College there is a teaching collection containing an herbarium, a collection of insects, and some other exhibits related to Canadian agriculture.

MILITARY TRAINING

1. An agreement entered into in 1940 between the Canadian Government and the University requires every regular male student who is
   (1) a British subject,
   (2) eighteen years or over,
   (3) physically fit,
   to undertake a course of basic military training, during the session, in one of the Reserve Training Battalions that have been organized. Six hours a week are devoted to this work.
2. British students who are physically fit and are *under eighteen* are also required by the University to undertake this training.
3. Non-British male students who are physically fit may take the training if they wish to do so.
4. Applications for exemption from this basic training must be made in writing to the Secretary of the University Committee on Military Instruction.

Further details are issued to each student at the beginning of the session.

CANADIAN OFFICERS' TRAINING CORPS

McGill University Contingent

Honorary Colonel: Col. A. A. Magee, D.S.O., E.D., A.D.C.
Honorary Lieutentant-Colonel: Lieut.-Col. T. S. Morrisey, D.S.O.
Commanding Officer: Lieut.-Col. J. M. Morris, M.C., V.D.

The essential purpose of the Corps is the training of its members to be officers in the various branches of the Canadian Forces, and applications will be considered only from students who intend after this O.T.C. training, to apply for commissions. The Corps can accept only a limited number of men and will choose those who are judged to have the highest personal and military qualifications. Further information may be obtained from the Headquarters of the Contingent in the Sir Arthur Currie Memorial Gymnasium-Armoury.

Note: The C.O.T.C. is a separate unit from the Reserve Battalion doing the basic military training.

WOMEN'S WAR SERVICE

The University requires all regular women students who are physically fit to undertake a special programme of training intended to enhance their physical fitness and enable them to meet with greater proficiency the types of emergency that may confront them. Applications for exemption must be made in writing to the Warden of the Royal Victoria College.

Details of the scheme are published at the beginning of each session.

REGISTRATION

1939-40

Degree Students

Faculty of Arts and Science:	Men	Women	Total	
Arts Division:				
First Year	50	113	163	
Second Year	66	108	174	
Third Year	80	92	172	
Fourth Year	67	90	157	
Totals	263	403	666	
Cancellations 10				
Science Division:				
First Year	173	33	206	
Second Year	85	20	105	
Third Year	71	16	87	
Fourth Year	40	13	53	
Totals	369	82	451	
Cancellations 6				
Commerce Division:				
First Year	59	4	63	
Second Year	55	2	57	
Third Year	36	4	40	
Fourth Year	34	2	36	
Totals	184	12	196	
Cancellations 4				
Totals for the Faculty	816	497	1,313	1,313
Faculty of Engineering:				
Engineering Division:				
First Year	139	...	139	
Second Year	138	...	138	
Third Year	96	...	96	
Fourth Year	92	...	92	
Totals	465	...	465	
Cancellations 6				
Architecture Division:				
First Year	7	1	8	
Second Year	4	1	5	
Third Year	2	...	2	
Fourth Year	5	...	5	
Fifth Year	5	...	5	
Totals	23	2	25	
Cancellations 3				
Totals for the Faculty	488	2	490	490

	Men	Women	Total	
Faculty of Medicine:				
First Year	94	3	97	
Second Year	87	8	95	
Third Year	82	8	90	
Fourth Year	86	1	87	
Fifth Year	70	6	76	
Totals for the Faculty	419	26	445	445
Cancellations 3				
Faculty of Dentistry:				
First Year	16	1	17	
Second Year	12	..	12	
Third Year	16	1	17	
Fourth Year	13	..	13	
Totals for the Faculty	57	2	59	59
Cancellations 0				
Faculty of Law:				
First Year	26	...	26	
Second Year	21	...	21	
Third Year	9	...	9	
Totals for the Faculty	56	...	56	56
Cancellations 1				
Faculty of Graduate Studies and Research	190	39	229	229
Cancellations 0				
Faculty of Agriculture:				
First Year	24	...	24	
Second Year	22	2	24	
Third Year	19	...	19	
Fourth Year	22	1	23	
Totals for the Faculty	87	3	90	90
Cancellations 0				
School of Household Science:				
First Year	...	22	22	
Second Year	...	24	24	
Third Year	...	16	16	
Fourth Year	...	20	20	
Totals for the School	...	82	82	82
Library School	4	11	15	15
Cancellations 2				
Faculty of Music	5	2	7	7
TOTAL DEGREE STUDENTS	2,122	664	2,786	2,786

DIPLOMA STUDENTS

	Men	Women	Total	
Faculty of Agriculture:				
First Year	27	1	28	
Second Year	16	...	16	
Third Year	1	...	1	
Totals	44	1	45	45
Faculty of Medicine:				
Diploma of Public Health	5	...	5	5
Faculty of Music:				
Licentiate Course	7	25	32	32
School of Household Science:				
Homemaker Course	...	39	39	39
School for Graduate Nurses	...	32	32	32
School of Physical Education:				
First Year	...	8	8	
Second Year	...	5	5	
Graduate Year	...	2	2	
Totals	...	15	15	15
School for Teachers:				
Elementary Class	1	28	29	
Intermediate Class	24	134	158	
Kindergarten Class	...	4	4	
Totals	25	166	191	191
TOTAL DIPLOMA STUDENTS	81	278	359	359

PARTIAL STUDENTS

Faculty of Agriculture	20	...	20	
Faculty of Arts and Science	56	86	142	
Faculty of Dentistry	2	...	2	
Faculty of Engineering:				
Engineering	3	...	3	
Architecture	2	...	2	
School for Graduate Nurses	...	3	3	
Faculty of Graduate Studies	2	...	2	
School of Household Science	...	4	4	
Faculty of Medicine	1	1	2	
Faculty of Music	33	65	98	
School of Physical Education	...	1	1	
TOTAL PARTIAL STUDENTS	119	160	279	279
Cancellations 15				
TOTALS IN UNIVERSITY COURSES	2,322	1,102	3,424	3,424
Registered in more than one Faculty				12

Other Courses

	Men	Women	Total
Extension Lectures	434	217	651
Evening Accountancy Diploma Courses	572	10	582
Extension Course for Graduate Nurses	...	29	29
French Summer School	25	77	102
Music	48	116	164

McGill University Libraries
3100436245W